RCN-Conti
31 Elizabetes street, LV-1010
Riga, Latvia
Tel: +37167505357; Fax: +37167505358

The NaviFleet™ Client User manual

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Technical support	sales@rcn-conti.lv

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1. Introduction

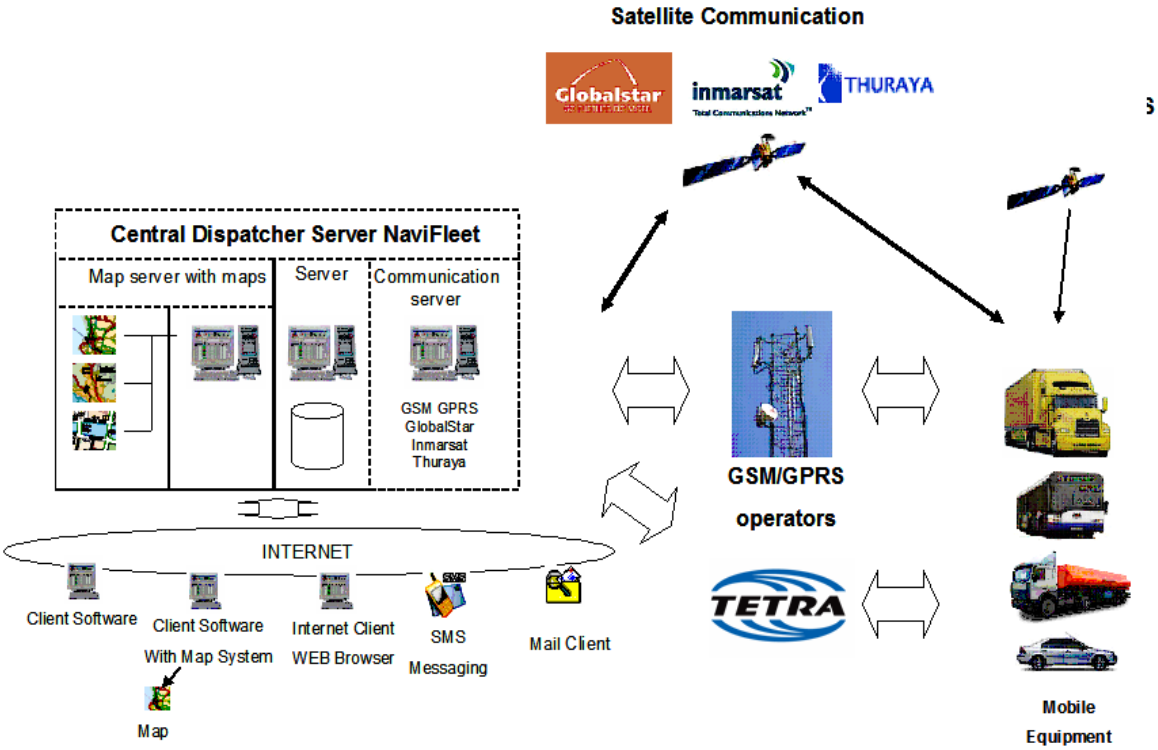
The NaviFleet™ is a hardware and software Complex of automatic locating and dispatching system for management of the fleet of vehicles.

The system makes it possible for the dispatcher to monitor the movement of vehicles in real time, to receive the data regarding the condition of the vehicle, alerts on activation of the alarm button, notifications if an on-board sensor is activated, and conduct the company's fleet management in real time.

Introduction of the NaviFleet™ telematics and monitoring system will help:

- Increase efficacy of operation the dispatcher services
- Reduce transportation costs
- Increase transportation safety
- Exclude the unauthorized usage of vehicles
- Dramatically improve the system of freight tracking and forwarding
- Improve the quality of the transportation services for the clients
- Get the effective tools for analysis of work of the drivers and vehicles of the company

2. The general structure of the system.



3. Description of the system

The purpose of the system is controlling and monitoring the motion of the fleet of vehicles. The system makes it possible to receive information regarding the location and condition of vehicles. The data is then processed and analyzed by the dispatcher center, which monitors the motion of vehicles and, if necessary, controls the actuators of the vehicle.

The system launches the fleet of vehicle management to a distinctively new level.
You gain the possibility at any moment to determine the location of the vehicle, as well as her speed, direction of motion and receive the data from various sensors onboard the vehicle.

The system opens up wide prospects regarding the vehicle safety. In particular, it is possible to equip the vehicle with an alarm button to call the quick reaction subdivision in case of emergency. The system allows by a command from the dispatcher center to activate the security systems of the vehicle (e.g. listen to what's going on in the driver's cab or passenger compartment; shutdown the engine, lock the doors, etc).

You gain the unique methods for route optimization, either on the fly, by direct management from the dispatcher center, taking into account changes of the situation on the road, or by utilizing the accumulated statistical data for the frequently repeated routes.
In addition, you can plan the route of the vehicle and receive alerts whenever violations, such as unscheduled stops, deviations from the route, etc, occur.

As a result, you get an up-to-date dispatcher system, which will help you most effectively manage the fleet of vehicles and quickly react to various changes and contingencies of the road situation.
The system helps considerably reduce the costs of management of the fleet of vehicles, increase overall operational efficiencies**,** improve the quality of service rendered to the clients and, as a result, increase the ROI of your company.

The principles of operation of the system are based on the advanced technologies of the satellite positioning system, the GPS and the GSM/GPRS mobile connection. The vehicle is equipped with an on-board terminal with a GSM/GPRS/GPS module. The on-board terminal determines the coordinates of the vehicle and sends those to the dispatcher center. Tracking a vehicle's location can be done either on request of the operator or at certain prescheduled time intervals.
All information sent from the mobile terminal immediately enters your dispatcher center (computer), and such an arrangement of data transfer guarantees both confidentiality and the high-speed information exchange.

The system consists of the following components:

- The dispatcher application, the NaviFleet Client
- Mobile equipment
  It is possible to employ three different mobile data terminals.
  - NaviTrac™ is the efficient solution for monitoring
  - NaviFleet™ is the Smart Telematics Terminal Complex
  - Mambo55 is the Personal monitoring.

The General functions of the program

Monitoring

- Displaying objects in real time on the digital map
- Working in either GPRS or SMS mode
- Vehicle location tracking on request of the dispatcher
- Vehicle location tracking over time intervals.
- Vehicle location tracking over the covered distance intervals.
- Time-and-cost effective sending data on 24 locations in one SMS message

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- Monitoring over arrival of the vehicle to a user defined location (settings can include 10 circles)
- Control over the vehicle's departure of the defined location (settings can include 10 circles)
- Notification whenever vehicles exceed a defined maximum speed.
- Sending messages in case of failure of the main power supply source.
- Remote configuration of the mobile equipment.
- When the main power supply is on sending notifications on switching on/off, resuming.
- Saving mode of operation with the turned off ignition of the vehicle (the vehicle is not moving), no information is being sent from her.
- Permanent control over the GPRS connection and re-establishing broken connection.

The Fleet of vehicles management allows you to:

- Send and receive text messages and other information
- Receive notifications if a vehicle remains stopped for longer than a defined time. Stop/parking time control
- Control over the status of the doors of the vehicle (driver's/ passenger's door opened/closed)
- Receive notifications on vehicle status: arrived at a location; available, received order, etc.
- Receive the total-covered-distance reports using the GPS receiver and built-in odometer.
- request and receive information from the on-board computer of the vehicle (mileage, consumed fuel, engine 's increased RPM operation time, engine temperature, etc.) (Pertains to vehicles from certain manufacturers)
- Receive information on the fuel (condition of the fuel tank, discharge and refill of fuel along with notification on location where it happened)
- Program three speed-dial numbers on the fly for establishing voice communication with drivers.
- Listen to what is going on inside the vehicle cabin on request.
- Assign priority to incoming messages (important, regular, and etc.)
- Receive sound notifications on incoming messages with the message status color distinction
- Archive incoming data to review it later by selecting the vehicle and the time interval
- Compilation of various forms/kinds of reports.

Safety/security functions

- Possibility for the driver to send SOS signals
- Receiving alerts if the security devices or alarms are triggered.
- Automated switching to vehicle tracking mode should signal be received
- Remote disabling of the vehicle engine
- Receiving alarm signal from the radio button
- Permanent control over presence of connection with the vehicle. The operator is immediately alerted about connection failure (or jamming).

Functions for multiple users

- Users access rights configuration (certain vehicles, granting certain rights, system configuration, etc.)
- Working with vehicle groups
- Authorization of the user (name of the user and password)
- Configuration of the vehicle (number, model, color, year of production, capacity of the fuel tank, etc.)

Cartography data

- Displaying objects on the map
- digital and bitmapped maps support
- Working with the MS Map Point 2002, 2006, MS Map Point WEB Service, Google Maps, Virtual Earth
- Configuration of data of the displayed object (coordinates, name, color, direction of motion, etc)
- Map scaling
- optional use of the cartography module to insert various digital maps on request of the customer
- use of the cartography server for the Internet applications

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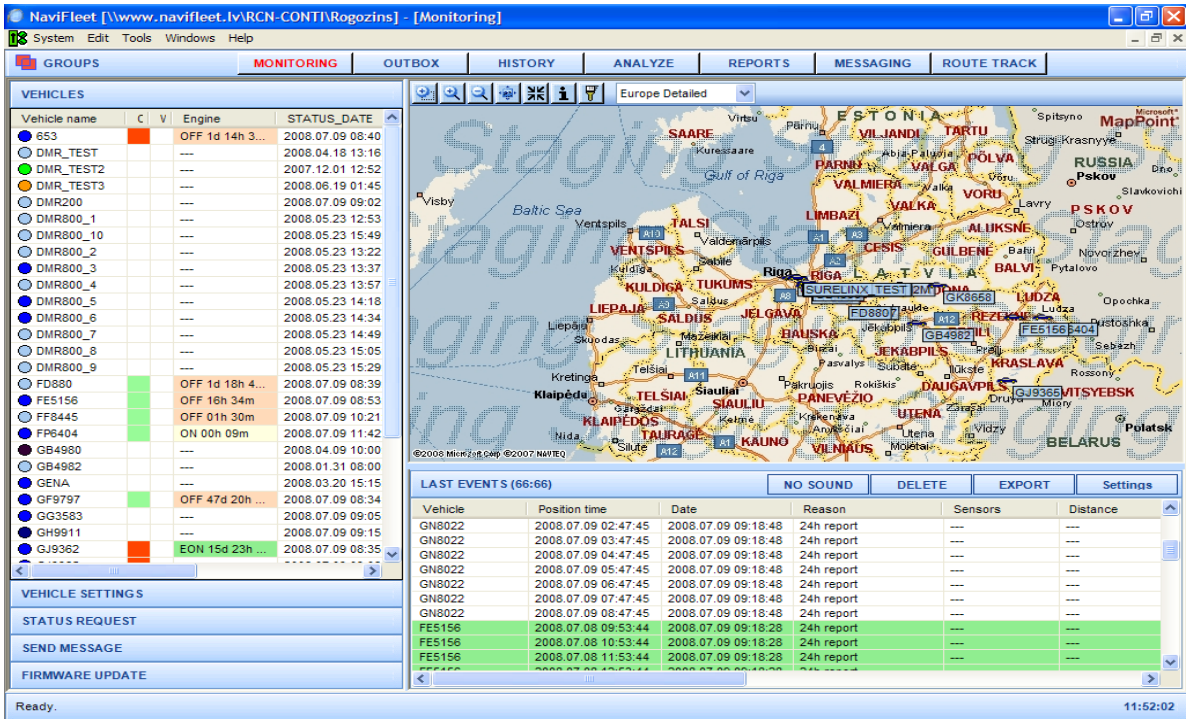
- Route Setting
- Display of the Points of Interest (POI)

Passenger fleet of vehicles management

- Automated accounting of passenger traffic (incoming, outgoing)
- Data exporting to the PIKAS graphical schedules program (PIKAS graphical schedules Editor)
- Real-time updating of the public transportation routes for accounting of the passenger traffic.
- monitoring

4. The Main program window

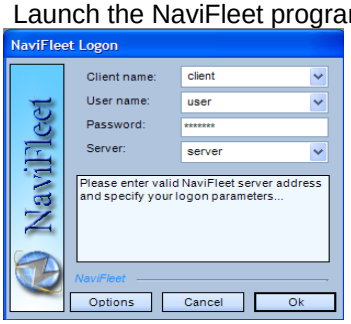


5. Working with the program

5.1. User authorization

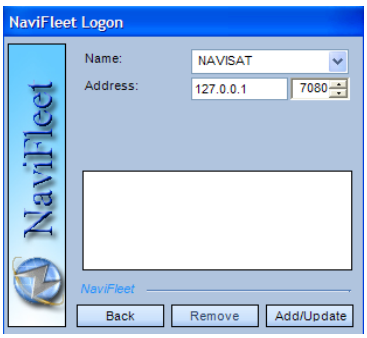
5.1.1. Entering the program

Launch the NaviFleet program



Enter the data received from the vendor for authorization:
Example:

Client:	client
User:	user
Password:	**********



For Server settings press the tab Options

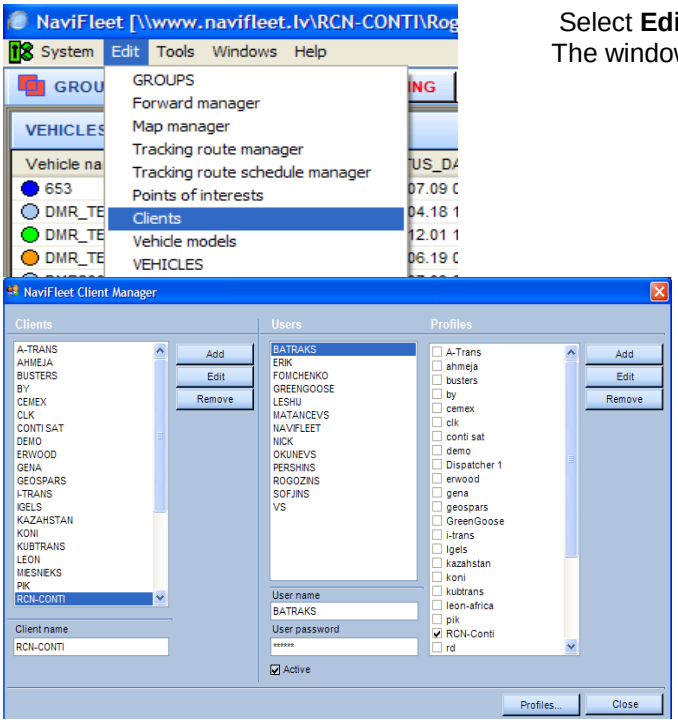
Enter <Name >. Enter the address of the server in the <Address> field. Server. The address of the server should be in the format **IP**_ address**: port**.
Example: 127.0.0.1:7080
You may not specify the port should you use the port 7080.
Example: 127.0.0.1
In the local network, instead of IP address the name of the computer in the network can be used.
Example: NAVISAT
In the global network, you can use the registered domain name instead of the IP address.
Example: **www.navisat.lv**

After you have entered all data, press Add/Update.

To enter the system press Back, then enter the remaining data.
After all settings have been made press **OK** or **ENTER** key

5.1.2. User access rights

Control over the access levels makes it possible to define the access rights for each user to work with the application.
Not all clients and users can access the function.



Select **Edit→ Clients**
The window **Clients Manager** will appear.

Customers: The list of the clients in the system.
Client's Name: Displays the selected client
User: Displays users of the given client
Profiles: assigning profiles
User Name and **Password:** to allow the user to enter the system

5.1.2.1. Addition/Removal/Editing user data

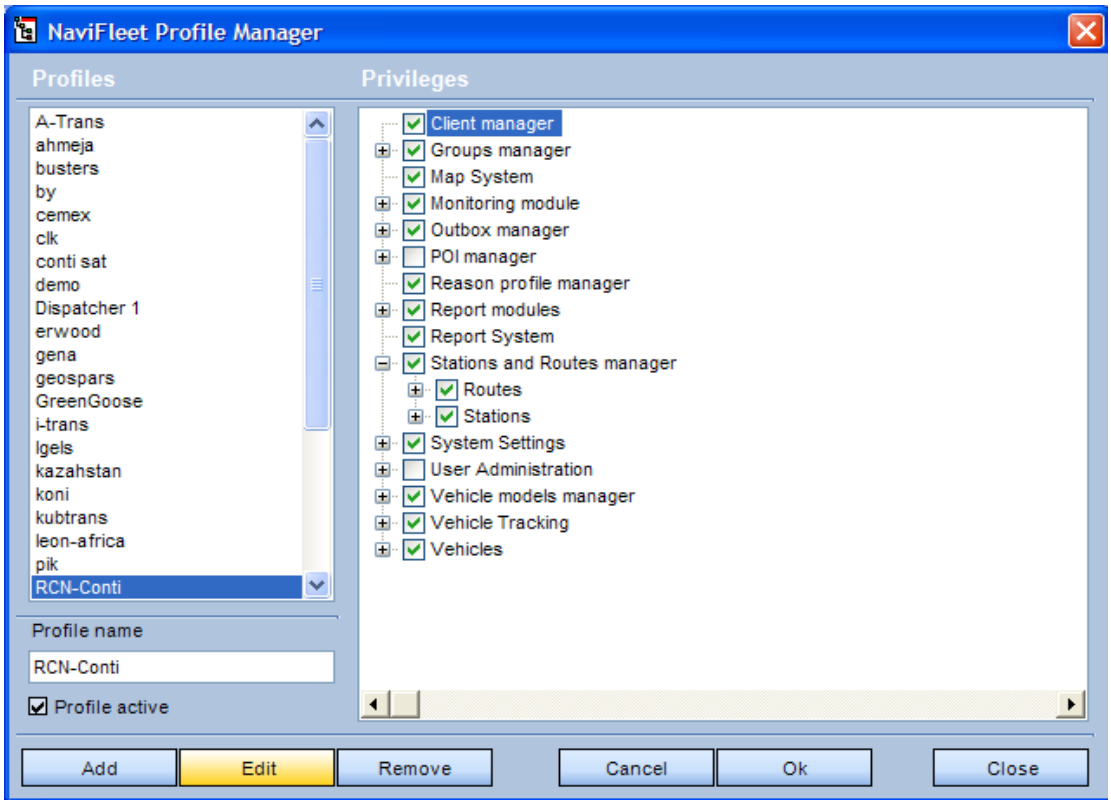
To add a new name enter the new name, click Add and then Ok.

To remove a name select the user's name, click Remove.

The definite access rights to the functions of the program can be given to each user.

5.1.2.2. Setting user access rights

Each of the users the system Profile is assigned or created anew. The list of operations and modules of the system accessible for users is created by checking the squares in the accessible Profile privileges list.



The profile privileges determine how users can work with the program and to limit their access to certain functions and windows of the program.

5.2. Work with vehicles

In the main menu, select **Edit → Vehicles**

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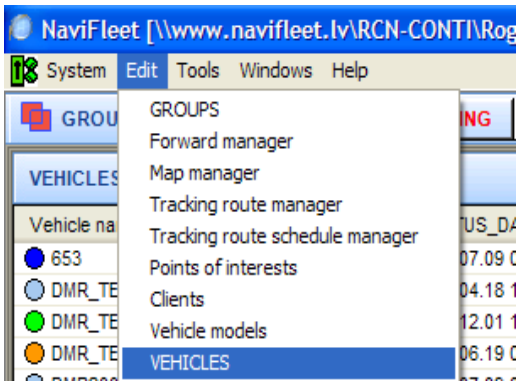
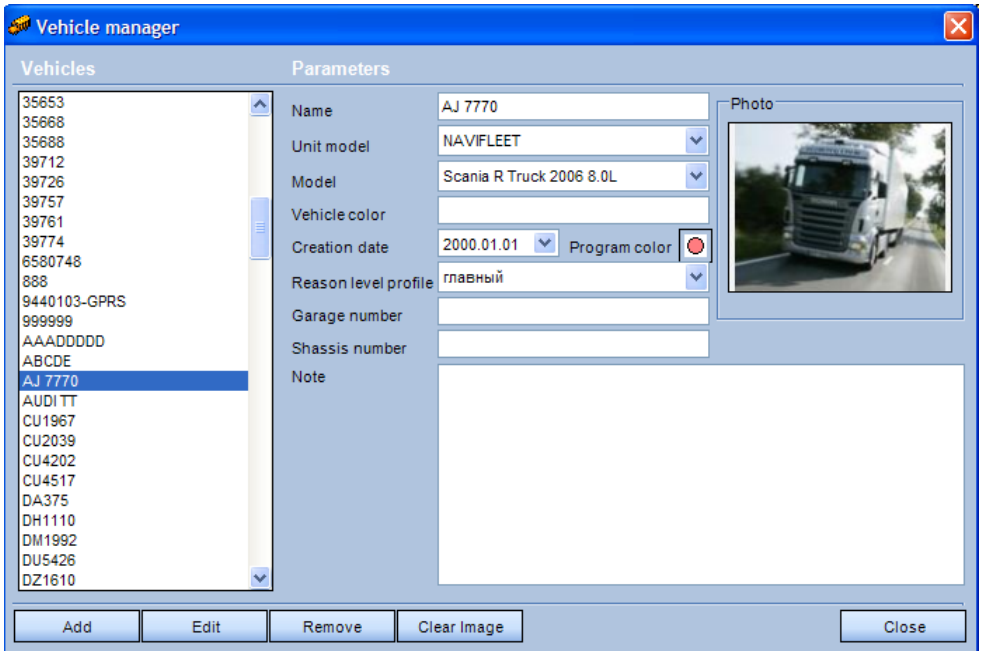


The settings allow entering the data
- Name of the vehicle (to be displayed in program modules)
- Model of the installed equipment (NaviTrac, NaviFleet, NaviFleet-GlobalStar, etc.)
- Vehicle model
- Garage number (it may be the same as the name)
- Chassis number
- Color of the vehicle
- Model year
- Color (displaying colors in program modules and on the maps)
- Notices
- View (a picture or photo of the vehicle to be displayed in reports)



5.2.1. Adding a vehicle

Enter the Name of the vehicle in the **Vehicle Manager,** this name will be displayed and used in the program.

Press Add, then press Ok

5.2.2. Changing (editing) the vehicle

Select the vehicle from the vehicles list. Then press Edit and then press Ok

5.2.3. Removal of the vehicle

Select the vehicle, press Remove.

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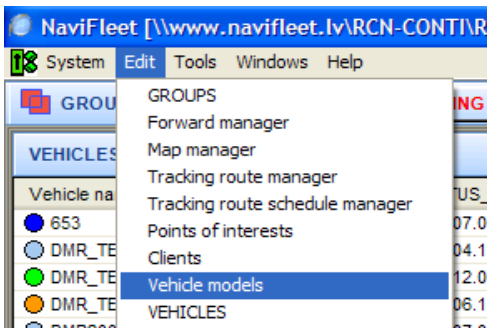
5.2.4. Entering information about the vehicle

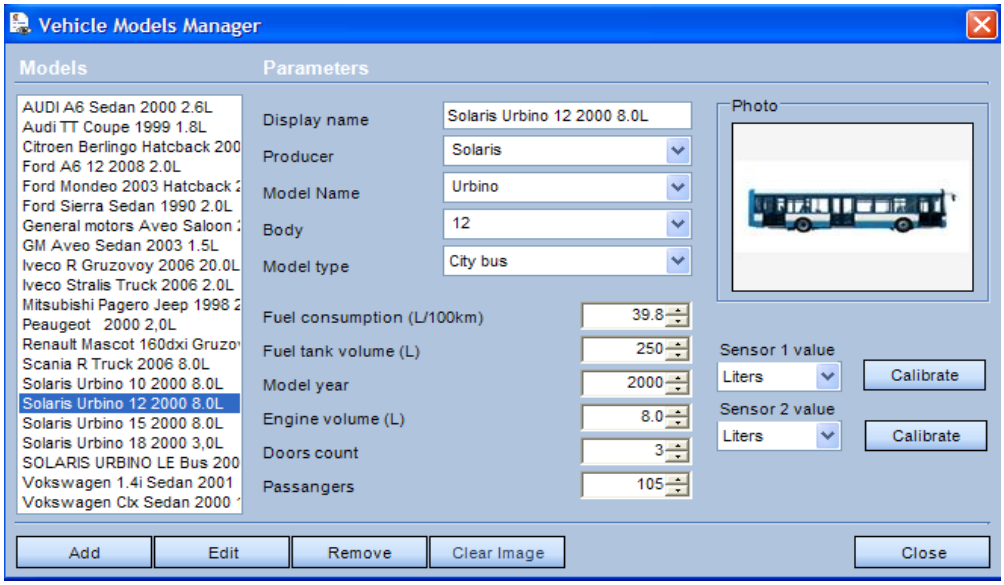
If required, enter the garage number, chassis number, model year, color of the vehicle to be displayed on the map, photo of the vehicle and other data.

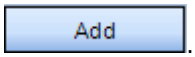
5.3. Setting Vehicle Manager



Press **Edit**
Select **Vehicle Models**

The **Vehicle Models Manager**



To enter the new model of a vehicle, press 

.

Enter the data:

- Name to be displayed
- Manufacturer
- Type, model
- Length
- Kind of the vehicle (passenger (conveyance), truck, etc.)
- Fuel consumption according to the vehicle's passport specifications
- Capacity of the fuel tank
- Year of production
- Engine volume
- Number of doors
- Passenger capacity
- Calibration of the fuel sensor
- upload the photo. To display the photo of the vehicle click 'image' and browse to choose the photo in the computer files.

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5.3.1. Calibration of the fuel tank (the analog input)

The analog sensors of the NaviFleet™ systems with the NaviFleet Client/Server program package can be utilized for metering the level of fuel in the tank of the vehicle.

Because of variations in the capacity of fuel tanks and the wear and tear of the fuel sensors, their readings can vary different vehicles, even for the vehicles of the same model and production year; thus in order to obtain the true data it is necessary to gauge or calibrate the fuel tanks.

All operations specified below are true for the NaviFleet Client 2006 v.4.3. software.

5.3.1.1. Open the "**Vehicle Model Manager** " (**Edit→ Models**)
5.3.1.2. Create or select from the list (if it has been already created) the model of the vehicle for calibration.

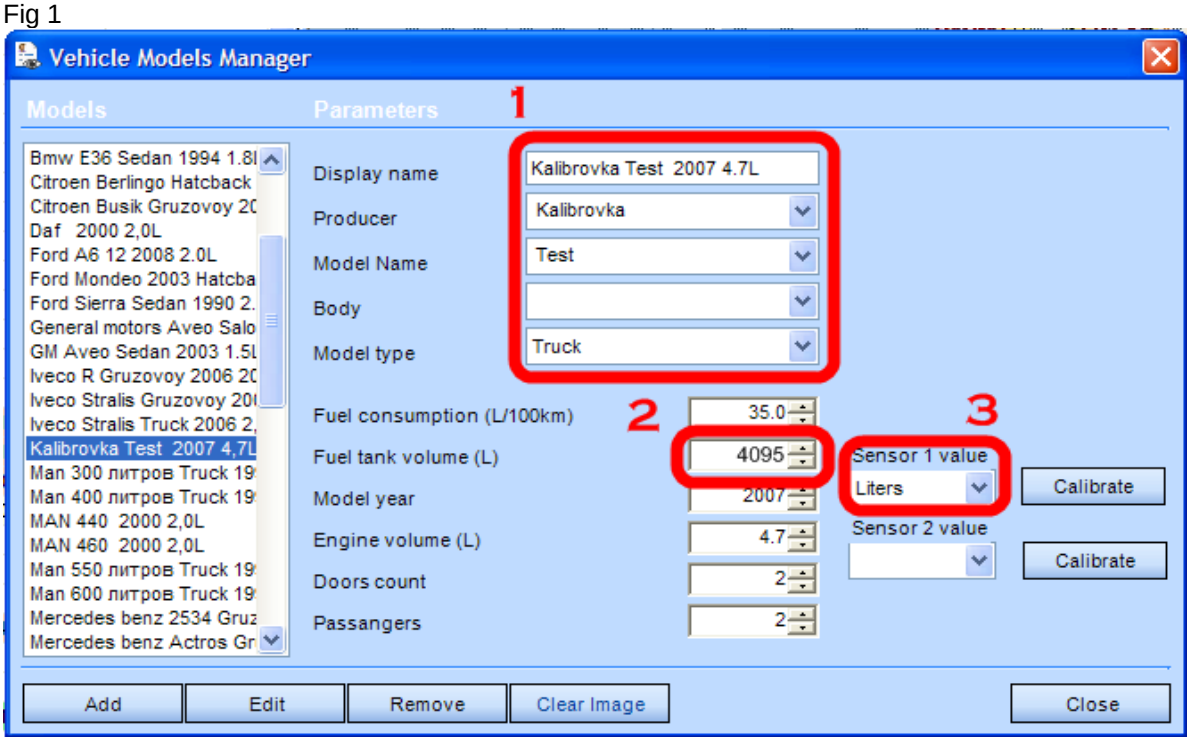
Fill out the outlined area **1** (fig. 1) with the real data of the vehicle

In the outlined area **2** (fig. 1), instead of the true volume of the fuel tank, indicate the upper limit of scale of measurement the analog sensor the value of 4095 units.

In the outlined area **3** (fig. 1) select "Liters" from the list of values

Press "**Save"** to save the changes and begin setting the values of Sensor 1 "**Sensor 1 values** "

Fig 1



5.3.1.3. Setting value to the analog sensor 1 (sensor 1 value)

While in the **Vehicle Models Manager**, press "**Calibrate**" at area **3** (fig. 1).

In the calibration table, which will appear on screen, set the extreme values of the metering limits of the analog sensor.

Attention!

It should be pointed out that the analog sensor readings can change either in the direct OR the inverse proportion. In other words, the sensor indicating "0" can mean that the tank is either empty OR full. Which proportion should be used in each particular case depends on the specific model of the vehicle; it can only be found out by measuring the voltage on the analog sensor for an

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empty tank and then for a full tank. If the sensor voltage is lower for an empty tank in comparison with that measured for a full tank, then the direct proportion should be used, see Fig. 2.1, otherwise the inverse proportion should be used

Fig.2.2

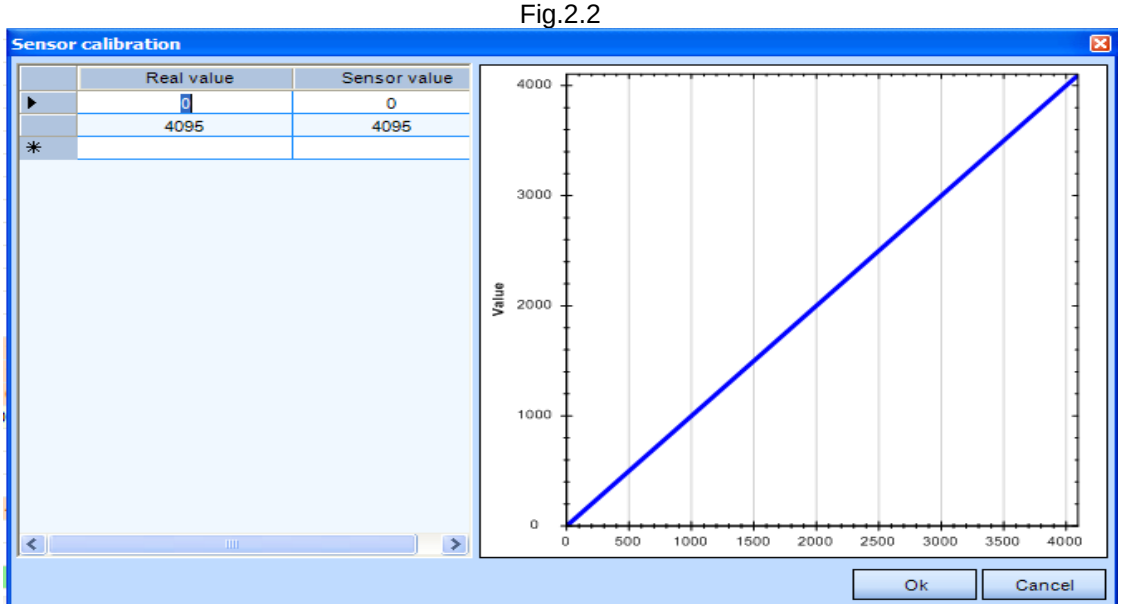

Fig 2.1

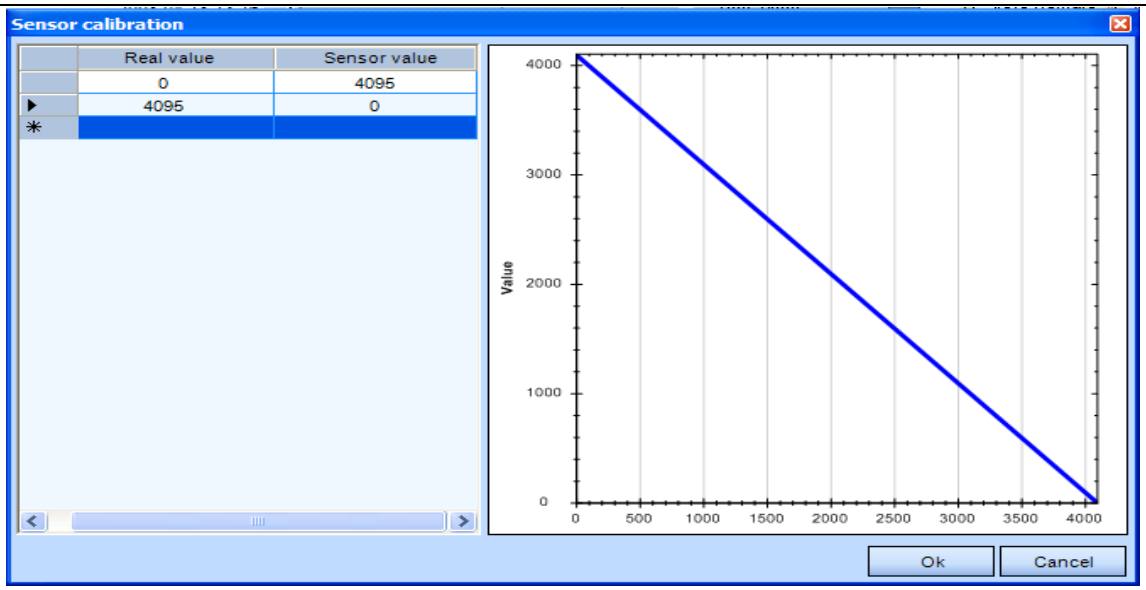

Fig 2.2

Save the Calibration table (click the **OK** tab) and close the "**Vehicle Models Manager**"

5.3.1.4. Assign the just-created-vehicle-model with its calibration profile to the calibrated vehicle (**Edit → VEHICLES**).

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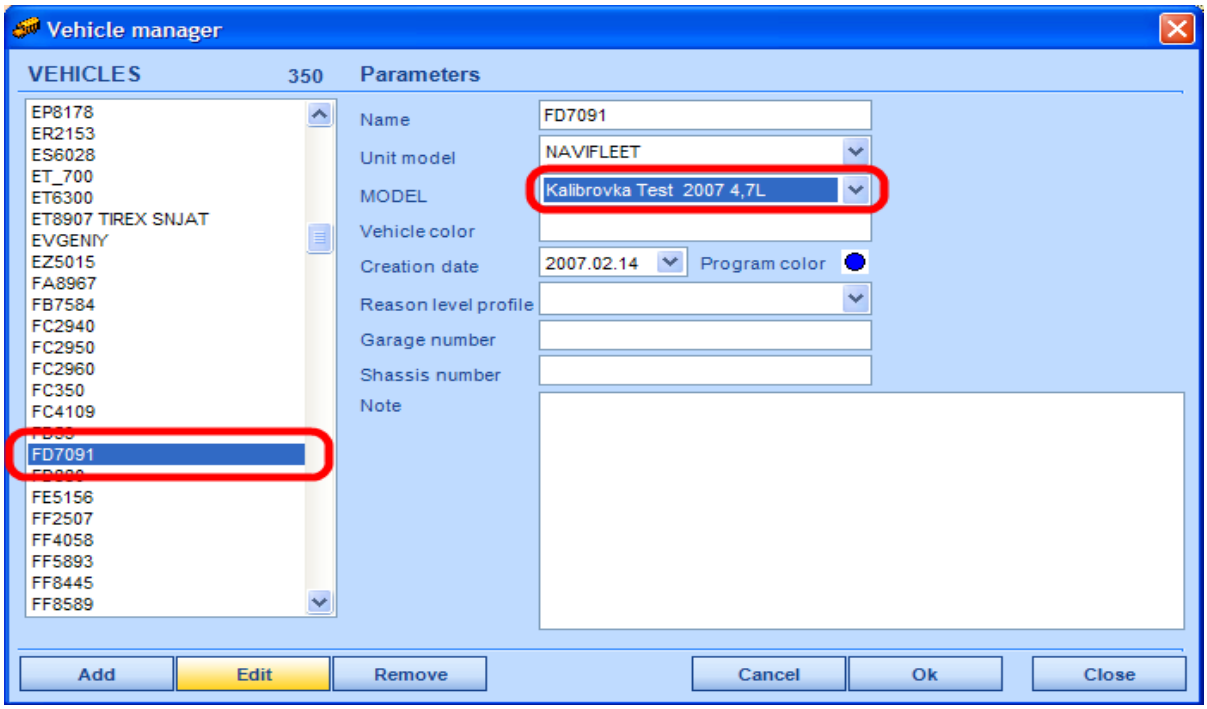
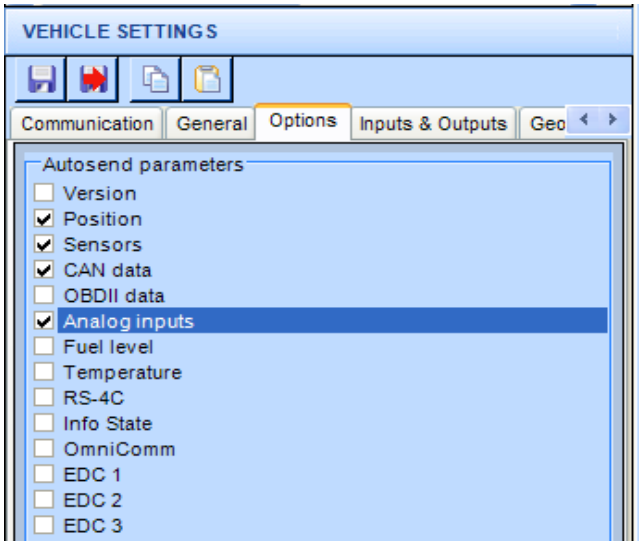


5.3.1.4.1. Save the changes.
Now it is possible to calibrate the fuel tank of the vehicle.

5.3.1.5. The order of actions during the calibration process:

5.3.1.5.1. For the vehicle set the interval timer for the working engine each minute and set sending notifications on the engine startup/shutdown.
5.3.1.5.2. In the vehicle settings check the analog input option.



5.3.1.5.3. For example, suppose that we have to calibrate a hypothetical vehicle with the fuel tank capacity of 500 liters with the analog sensor voltage changing in the direct proportion:
5.3.1.5.3.1. Start up the engine of the vehicle, then after receiving the notification on the start up of the engine from the vehicle, which should be followed by arrival of the first interval timer, record the reading of the analog sensor received along with the timer; the value of this reading corresponds to the empty tank.

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5.3.1.5.3.2. Begin filling the vehicle with the empty tank and working engine by 100-liter lots of fuel (to get a greater accuracy of the readings it is possible to reduce the volume of a fuel lot to 50 or even 20 liters)

5.3.1.5.3.3. After every filling, to exclude the possibility of a mistake due to fluctuations of the level of the fuel in the tank (shaking), we should wait for 3-5 minutes and then shut down the engine.

5.3.1.5.3.4. Record the reading of the analog sensor received along with the interval timer; it corresponds to 100 liters of fuel in the tank.

5.3.1.5.3.5. Engine shutdown serves as signal to the calibrator of the computer that the first 100 liters have been filled and when the engine is restarted, pumping of the next 100-liter lot will begin.

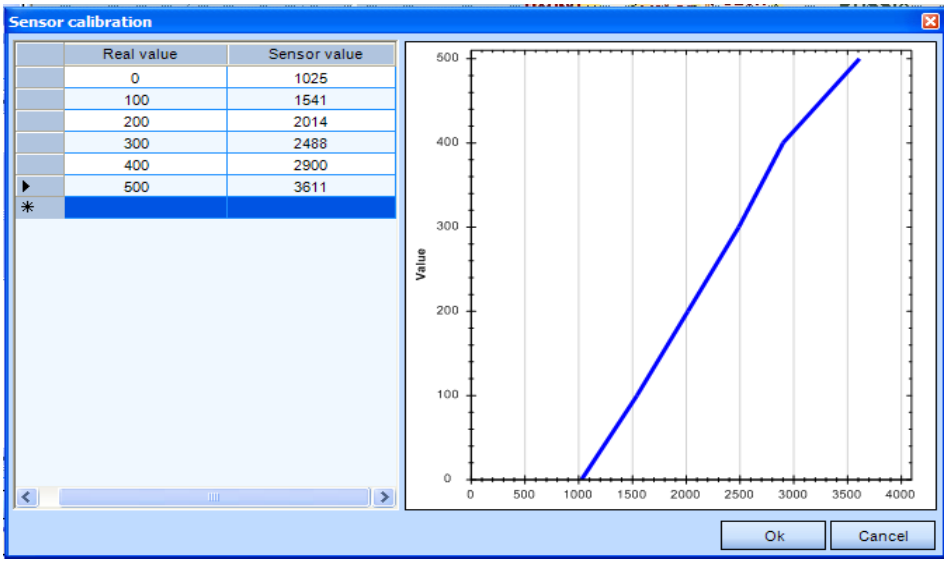
5.3.1.5.3.6. Start up the engine of the vehicle, and repeat the operation described in articles 5.3.1. ;5.3.2. and 5.3.1. thru 5.3.4.

5.3.1.5.3.7. Repeat the procedures (5.3.1.5.3.2. – 5.3.1.5.3.6.) until the vehicle is fully refueled.

5.3.1.5.6. Enter the data received during calibration into the calibration table of the vehicle.
For example, for the vehicle during calibration the following data have been received:

0 liters	-	1025 units
100 liters	-	1541 units
200 liters	-	2014 units
300 liters	-	2488 units
400 liters	-	2900 units
500 liters	-	3611 units

The calibration table will look as follows:



5.3.1.5.7. Change the capacity of the fuel tank of the calibrated models of the vehicle in the **Vehicle Model Manager** ” (**Edit → Models**) to the actual tank capacity:

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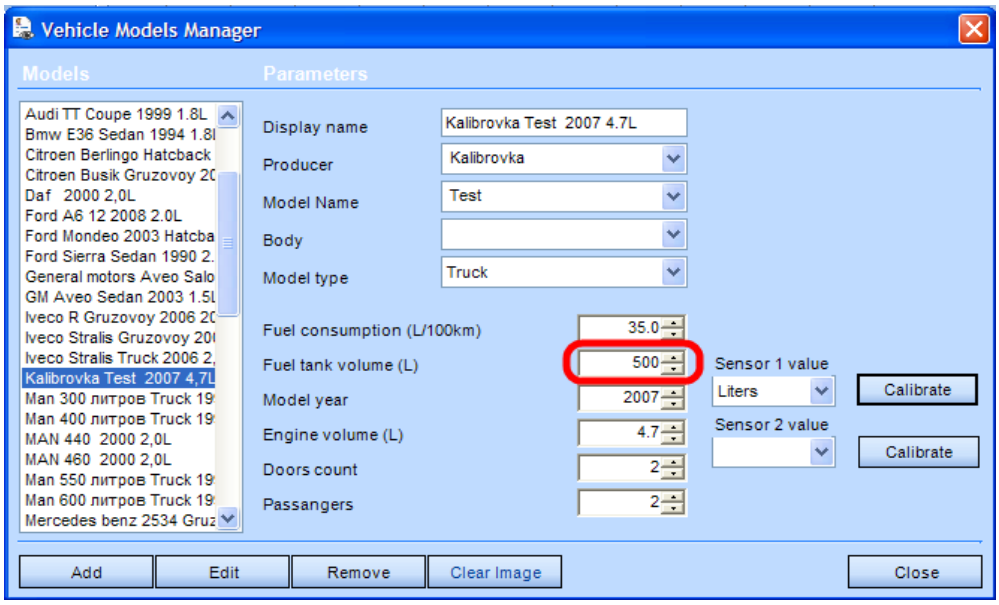
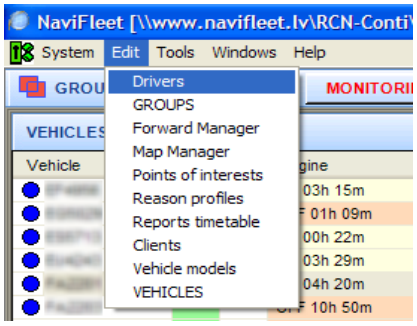
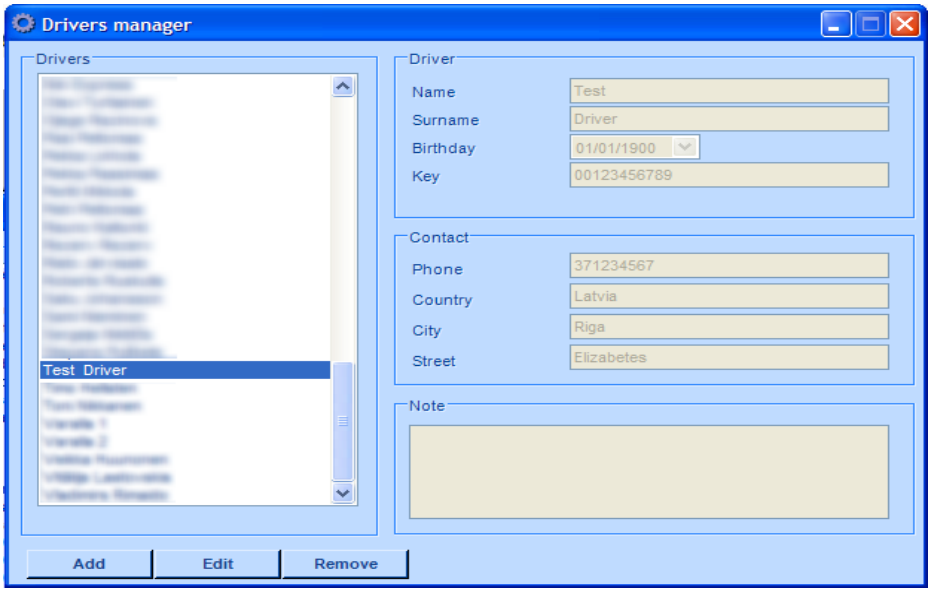


The calibration is completed.
Set the interval timers and the engine startup / shutdown signals processing to previous values.

5.4 Setting Drivers Manager



In the main menu select **Edit→Drivers**



To add a new driver in **Drivers manager** press the button Add.

In the field "**Driver**" enter a name, a surname of the driver and a date of birth, and also enter a **key** of **iButton** device or **Garmin** Driver ID*.

In the field "**Contact**" enter the contact information of the driver: a phone number, the country, a city and street.

In the field of "**Note**" enter the notes, concerning this driver. After entering all information press the button Ok, to save this driver.

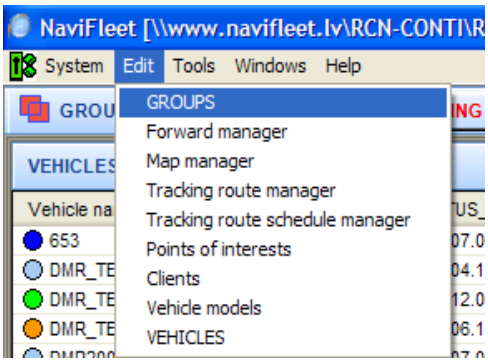
To edit information of existing driver press the button Edit.

To remove driver press the button Remove.

* Drivers manager feature is used only if NaviFleet is completed by additional devices **Dallas iButton**, **Garmin Nuvi 750** (with driver tracking function)

5.4. Working with groups

Click **Edit → Groups**



The group management allows arranging groups of vehicles for the user.
This function is not accessible for all users.
A user can create separate groups of vehicles from the list of vehicles available for the given user.

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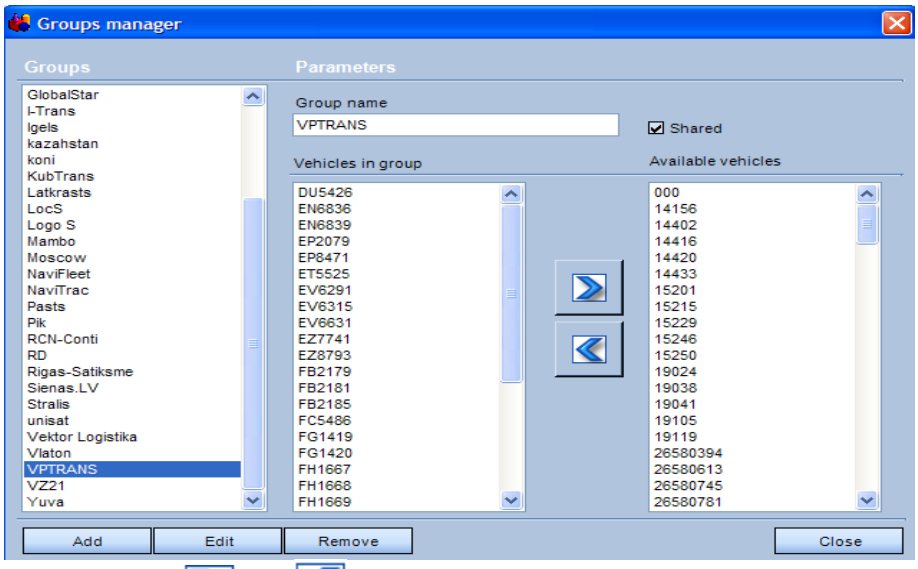
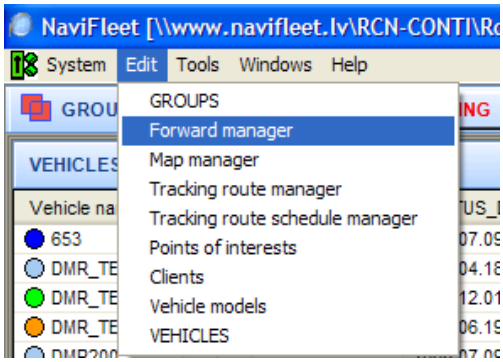


Using the tabs and select vehicles available for the group.

5.5. Forwarding manager



Forwarding manager makes it possible to receive information (timers, alarm, can data, etc) from the vehicle at the pre-scheduled time on the cell phone (SMS) and /or e-mail.

To open the **Forwarding manager**, in the main menu select **Edit → Forwarding manager**

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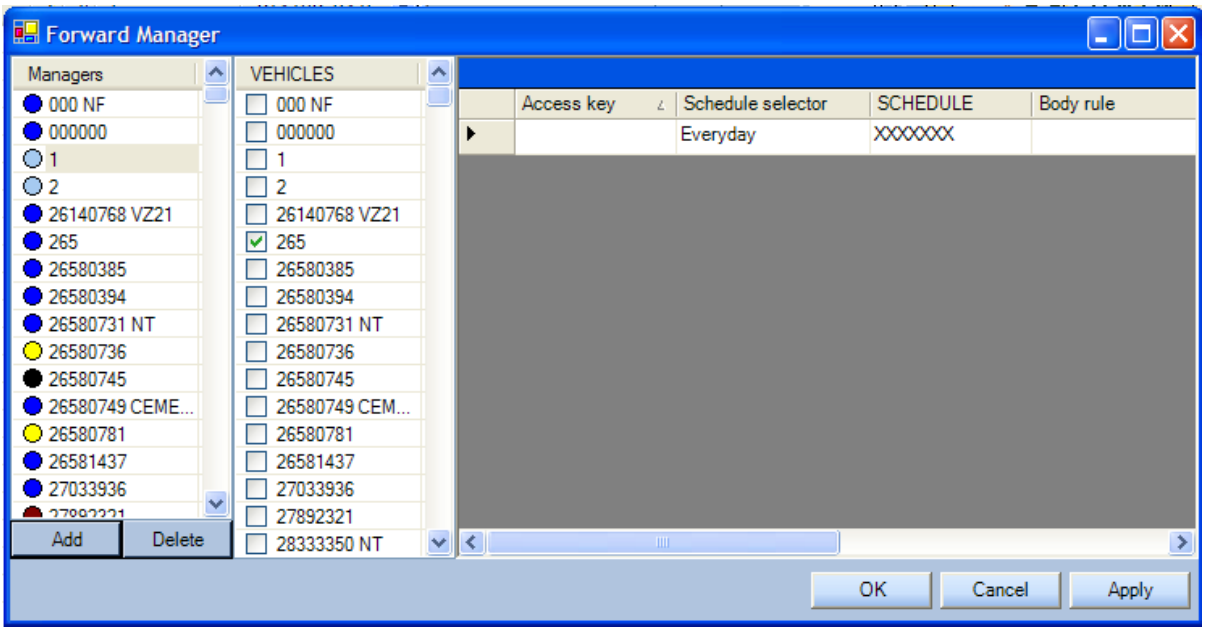

5.5.1. Creating the manager

Add the vehicle in the <**Vehicle Manager** > see article 5.2. Working with vehicles.

In the vehicle settings, enter the Number where the SMS messages are to be received. Enter the phone number in the **Vehicle Settings →Connection → Request Number.**

While in Vehicle Settings enter the email address where the electronic messages are to be received. Enter the email address while in Vehicle Settings **→Connection →Sim card ID.**
To receive SMS messages select the **SMS** driver.
To receive email messages select the **SMTP** driver.

Selecting driver can be done in **Vehicle Settings →Connection →Base→Sending through driver.**

Save the settings by pressing . See article 5.7. Setting the mode of work of the vehicle. Also, see the *Technical description of the Navifleet and NaviTrac*.

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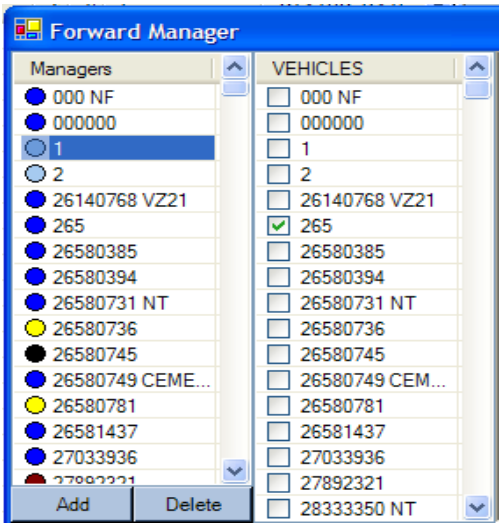
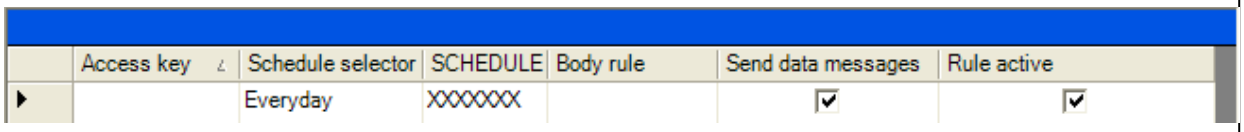
5.5.2. Creating the rule.



In the **Managers** column select vehicle manager and press Add, in the right corner will appear a new field (record) of the rule. In the **Vehicle** column, select the vehicles to observe the rule.

To remove the rule, press Delete.



Selecting settings.

Access code: access code
Selection of schedule : selection of schedule (Each day, Working days, Days off, Other time)
the Schedule : the selected days in the schedule are shown (where X is the selected day, O is the not-selected day)
Message text filter means the messages will be send on matching with the text of the message
Send all messages: if the square is checked ☑, all messages will be readdressed. If the square is not checked ☐, then only text messages will be readdressed.
Rule active– activate the rule.

To save the settings press OK.

Notice: before saving the settings, make sure the selected vehicle is selected from the list of **Vehicles.**

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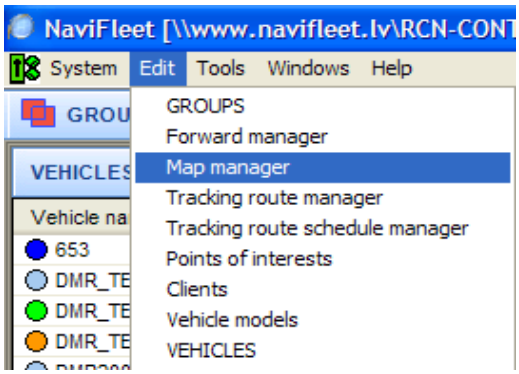
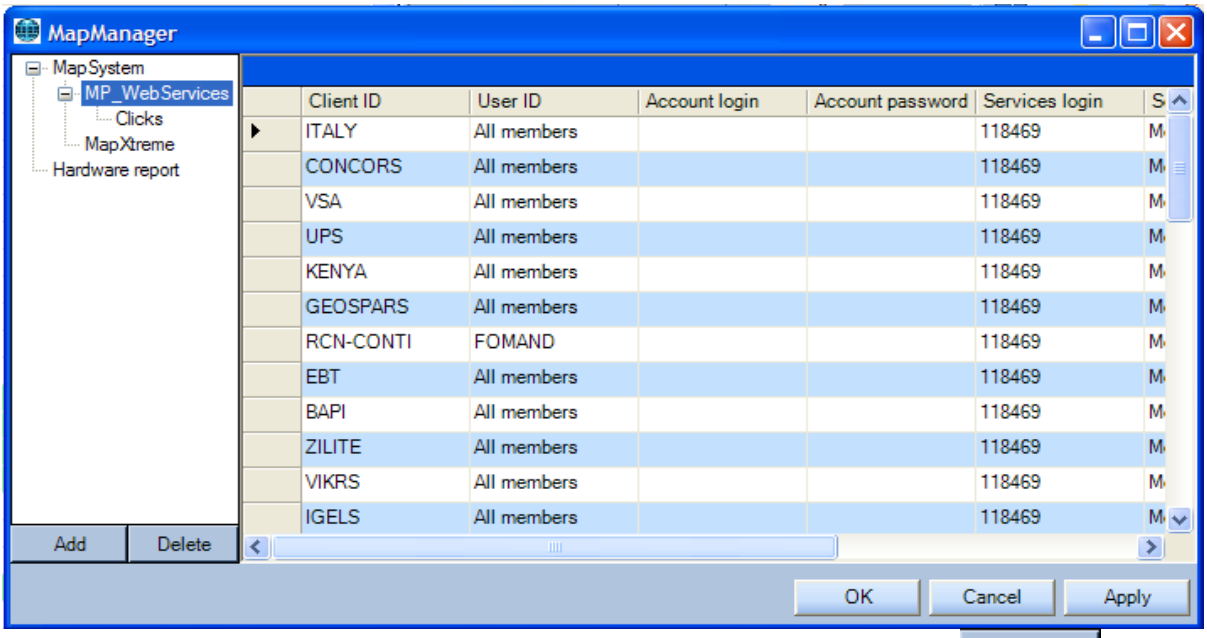
5.6. The rights of access to the Map manager.



In the main menu, select **Edit →The rights of access to the Map manager.**



To access the MapPoint Web service, select «**Web services** » and press the tab Add.

- Select the client in the field Client **ID**.
- Select the user in the field **User ID**.
- Enter your login in the field **Services login** (for login request your dealer).
- Enter the password in the field **Services Password** (request your dealer for the password).
- Select **Environment** (**Staging** is the free test environment with limited speed and number of transactions (clicks), **Production** is the working environment with no limitations. The **Production** environment is not free. Ask your dealer)
- Check the square ☑ in **Account Active** to activate the profile.

After entering all data, press OK

To remove a profile press Delete

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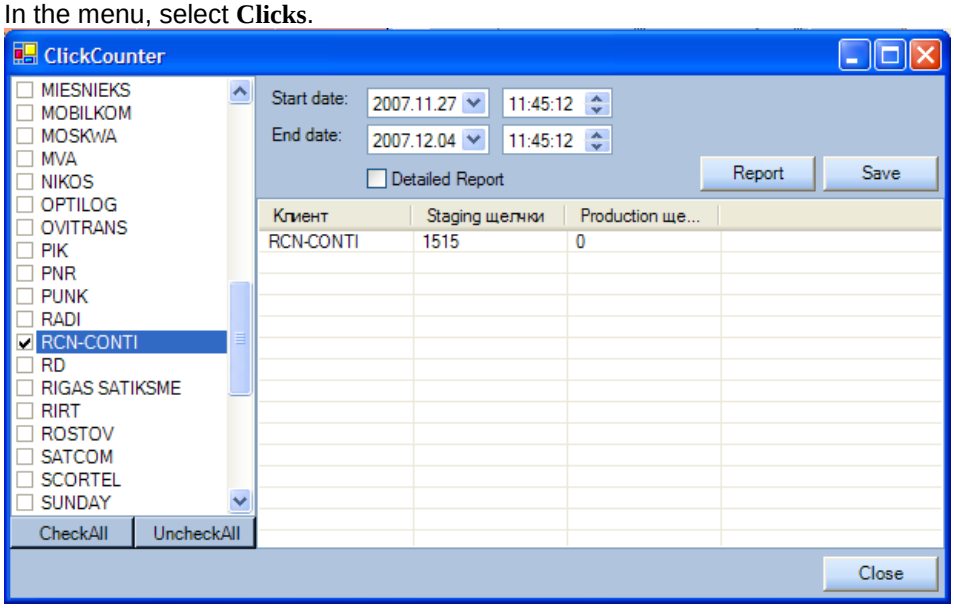
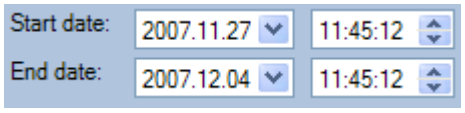
5.6.1. Clicks counter.

In the menu, select **Clicks**.



In the list of groups, select the group or several groups, by checking the square ☑. To select all groups, press the tab CheckAll. To cancel all selected groups press the tab UncheckAll.



Select the report period by setting the time range.

To make the report, press Report.
To make the detailed report (users of one group) check ☑ Detailed Report
To save the report in a file (. xls,. html,. csv) press Save.

5.7. Setting the modes of operation of a vehicle.

Press VEHICLE SETTINGS

Button is to save the program settings.

button is to save the settings in the program and send them to the onboard terminal device.

button is to copy all the settings (except the request number and the SIM card ID).

button is to paste the copied settings.

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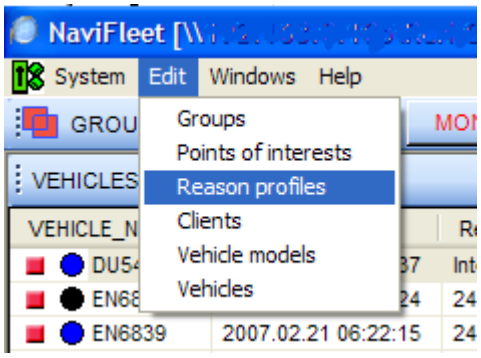
NOTICE:
For the detailed technical description of the NaviTrac**,** please see the manual ***The Technical description of the NaviTrac.***
For the detailed description of the NaviFleet, see the manual ***The Technical description of the NaviFleet.***

5.8. Setting event/reason profiles



In the **Edit** tab select **Reason profiles**

To create a new reason profile, press Add.
To make changes in the current profile, press Edit.
To remove profile, press Remove.
For each **Reason** you can change the color distinction of the event in the table of the displayed parameters. There are four colors: white, green, yellow and red. The colors are positioned in order of their significance (0 = of no significance, 3 = the most significant).

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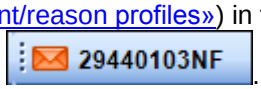
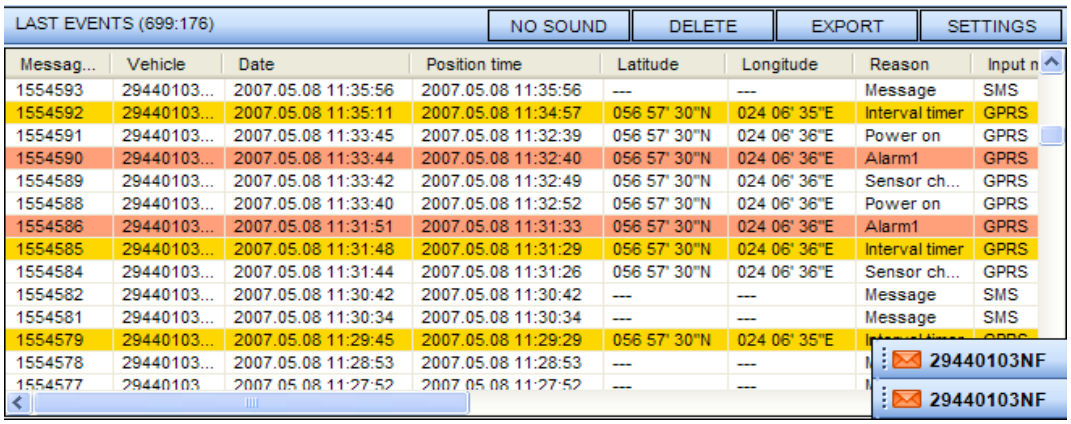
5.9. Alarm

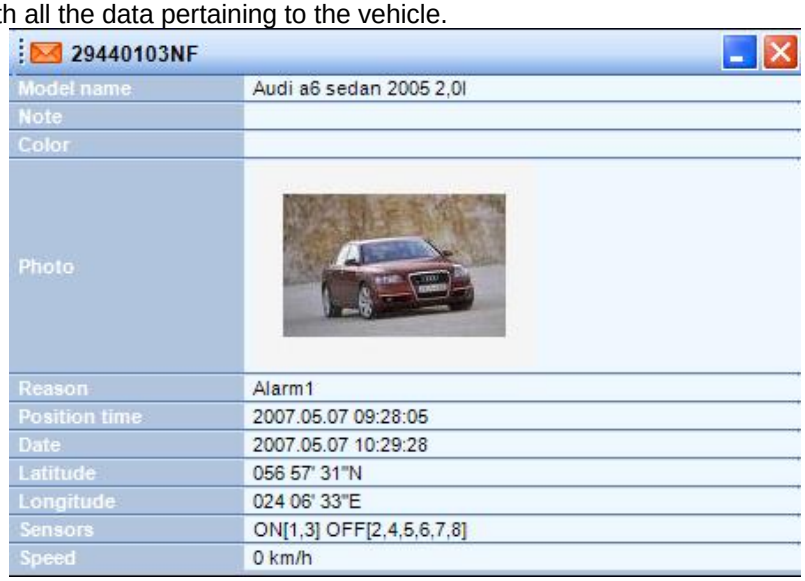
On occurrence of the ALARM event (or of any other event highlighted red in the reasons profile, see article 5.8. «Setting event/reason profiles») in the lower right screen corner will appear the tag with the name of the vehicle 

.



Messag...	Vehicle	Date	Position time	Latitude	Longitude	Reason	Input n
1554593	29440103...	2007.05.08 11:35:56	2007.05.08 11:35:56	---	---	Message	SMS
1554592	29440103...	2007.05.08 11:35:11	2007.05.08 11:34:57	056 57' 30"N	024 06' 35"E	Interval timer	GPRS
1554591	29440103...	2007.05.08 11:33:45	2007.05.08 11:32:39	056 57' 30"N	024 06' 36"E	Power on	GPRS
1554590	29440103...	2007.05.08 11:33:44	2007.05.08 11:32:40	056 57' 30"N	024 06' 36"E	Alarm1	GPRS
1554589	29440103...	2007.05.08 11:33:42	2007.05.08 11:32:49	056 57' 30"N	024 06' 36"E	Sensor ch...	GPRS
1554588	29440103...	2007.05.08 11:33:40	2007.05.08 11:32:52	056 57' 30"N	024 06' 36"E	Power on	GPRS
1554586	29440103...	2007.05.08 11:31:51	2007.05.08 11:31:33	056 57' 30"N	024 06' 36"E	Alarm1	GPRS
1554585	29440103...	2007.05.08 11:31:48	2007.05.08 11:31:29	056 57' 30"N	024 06' 36"E	Interval timer	GPRS
1554584	29440103...	2007.05.08 11:31:44	2007.05.08 11:31:26	056 57' 30"N	024 06' 36"E	Sensor ch...	GPRS
1554582	29440103...	2007.05.08 11:30:42	2007.05.08 11:30:42	---	---	Message	SMS
1554581	29440103...	2007.05.08 11:30:34	2007.05.08 11:30:34	---	---	Message	SMS
1554579	29440103...	2007.05.08 11:29:45	2007.05.08 11:29:29	056 57' 30"N	024 06' 35"E		
1554578	29440103...	2007.05.08 11:28:53	2007.05.08 11:28:53	---	---		
1554577	29440103	2007.05.08 11:27:52	2007.05.08 11:27:52	---	---		

To find out the data on the vehicle press the shield and in the center of the screen will appear a window with all the data pertaining to the vehicle.



Model name	Audi a6 sedan 2005 2,0l
Note	
Color	
Photo	
Reason	Alarm1
Position time	2007.05.07 09:28:05
Date	2007.05.07 10:29:28
Latitude	056 57' 31"N
Longitude	024 06' 33"E
Sensors	ON[1,3] OFF[2,4,5,6,7,8]
Speed	0 km/h

Further actions of the dispatcher on receiving alarm alert should be prescribed in the directions for internal use of the company.

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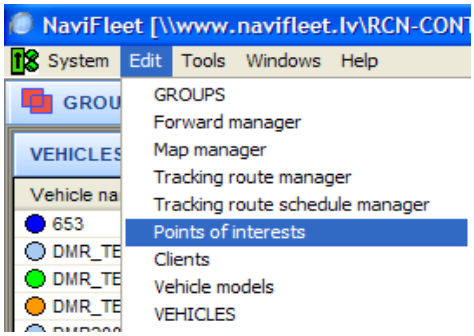
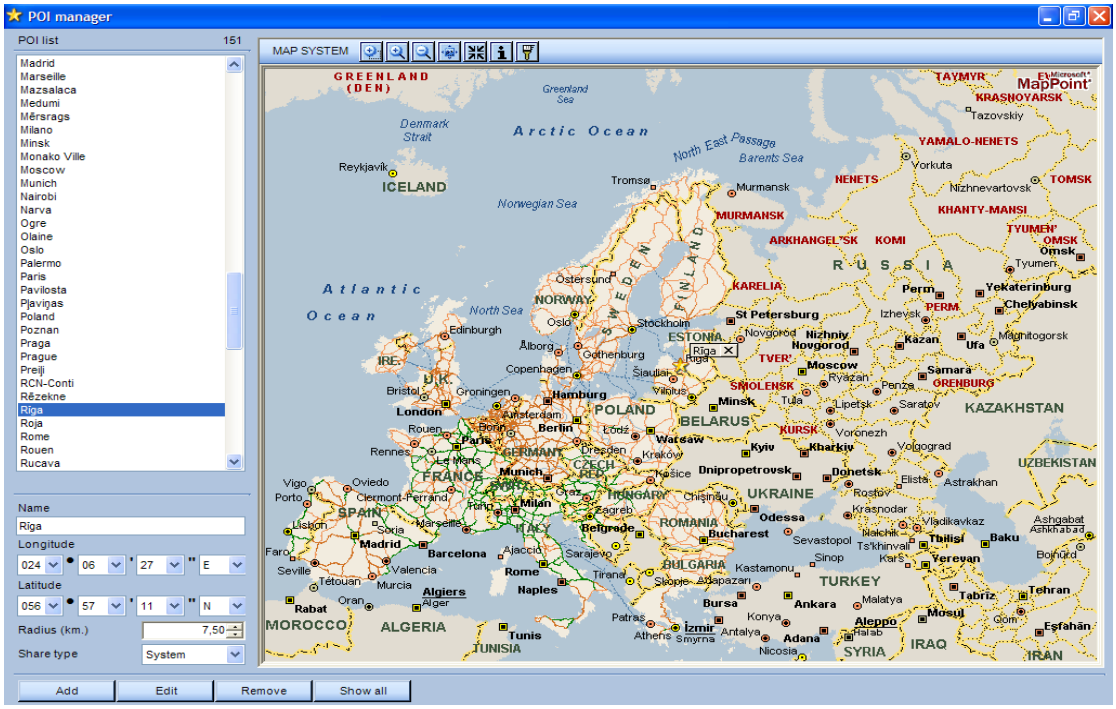
5.10. Setting the Points of Interest



In the **Edit** menu select **The Point of Interest**

The Points of Interest facilitate viewing the tables and analyzing the motion of vehicles. The program computes and displays the distance from the received coordinates to the nearest Point of Interest



To enter a new Point of Interest press Add
Enter name of the Point of Interest. The coordinates of the Point of Interest can be entered either manually or by using the map. To enter the coordinates from the map, press , move the mouse pointer to the center of the zone; pressing the right mouse button will display the Point of Interest.

To change the Point of Interest press Edit and repeat the above-described actions.

To remove of the point select the Point and press Remove

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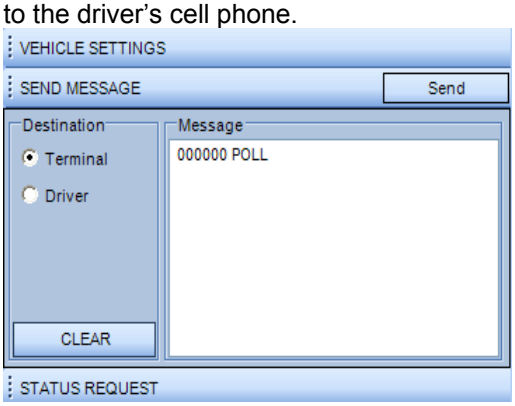
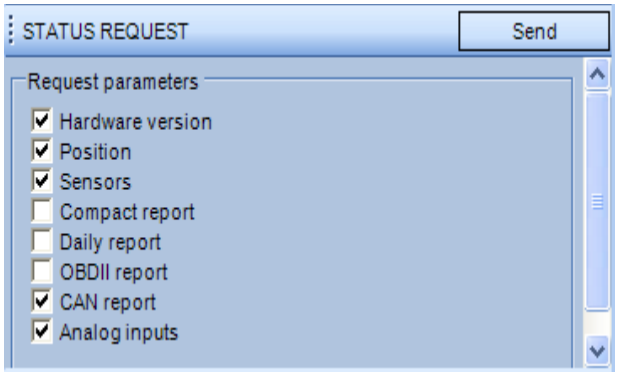
5.11. Sending messages

You can send messages to the terminal as well as to the driver's cell phone.



To send a message go to **SEND MESSAGE**, select **Destination** (T**erminal** or D**river's Phone Number**, which is recorded in the **VEHICLE SETTINGS**), enter your message in the message field and press Send

5.12. Request of the information about the current parameters of the vehicle



To request the current information about the vehicle, go to **STATUS REQUEST.** Select the parameters by checking ☑ to determine the request, then press Send.

5.13. Updating the software of the mobile terminal

The function is available only to the dealers and the personnel who received the special training.

5.14. Setting the table of displayed parameters

the Parameters displayed in the table can be set according to your specific needs. Whenever the vehicle is selected in the line of the table, it is also displayed on the map.

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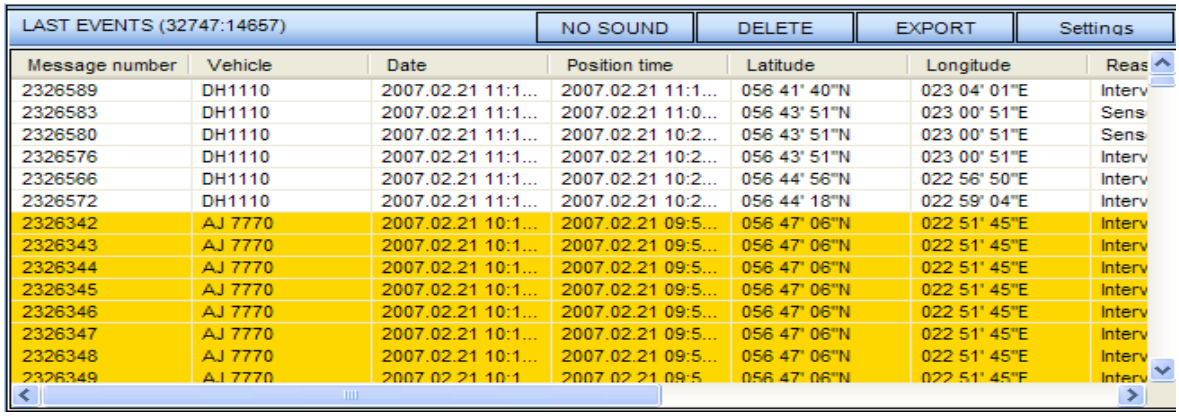


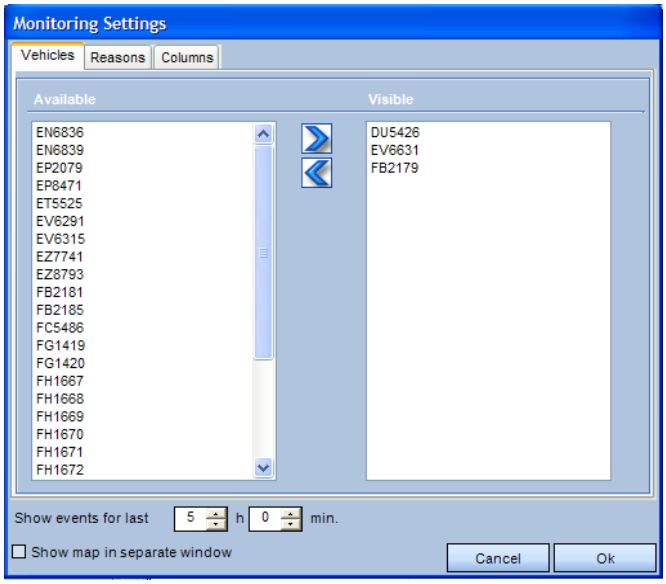
Message number	Vehicle	Date	Position time	Latitude	Longitude	Reas
2326589	DH1110	2007.02.21 11:1...	2007.02.21 11:1...	056 41' 40"N	023 04' 01"E	Interv
2326583	DH1110	2007.02.21 11:1...	2007.02.21 11:0...	056 43' 51"N	023 00' 51"E	Sens
2326580	DH1110	2007.02.21 11:1...	2007.02.21 10:2...	056 43' 51"N	023 00' 51"E	Sens
2326576	DH1110	2007.02.21 11:1...	2007.02.21 10:2...	056 43' 51"N	023 00' 51"E	Interv
2326566	DH1110	2007.02.21 11:1...	2007.02.21 10:2...	056 44' 56"N	022 56' 50"E	Interv
2326572	DH1110	2007.02.21 11:1...	2007.02.21 10:2...	056 44' 18"N	022 59' 04"E	Interv
2326342	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326343	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326344	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326345	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326346	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326347	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326348	AJ 7770	2007.02.21 10:1...	2007.02.21 09:5...	056 47' 06"N	022 51' 45"E	Interv
2326349	AJ 7770	2007.02.21 10:1	2007.02.21 09:5	056 47' 06"N	022 51' 45"E	Interv

To remove the selected message from the message folder press DELETE

To stop sound notification press NO SOUND

To save events in a file press EXPORT. In the dialog that appears next, select the format in which you want the report to be saved (.xls; .csv; .html).

To make settings of the table of the displayed parameters press SETTINGS, the settings window will appear



To select a vehicle or a group of vehicles, whose events are to be displayed in the table, press **Vehicles** tab and in the **Available** list select the vehicle and move them to the **Visible** list using or by double click of the mouse.

Use the to reverse the action.

In addition, to select the vehicle, the messages from which will be displayed, press the right mouse button in the **Vehicles** list and in the drop out menu select the option:

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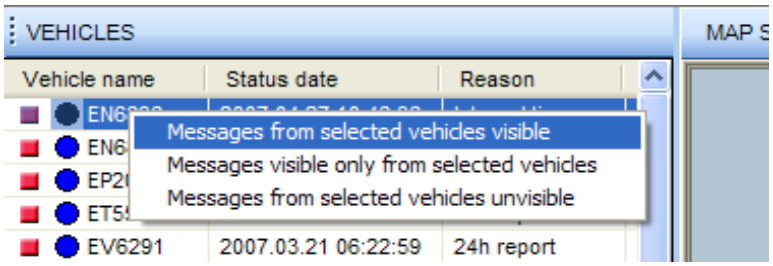
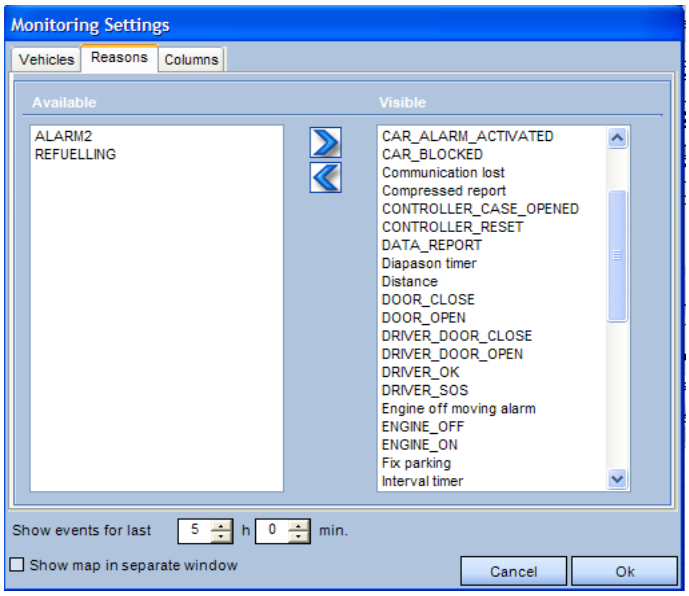
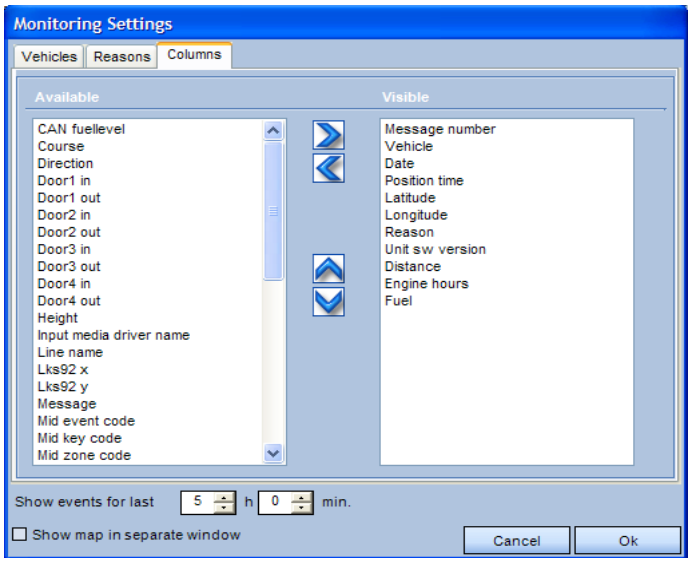




To select the events to be displayed in the table press **Reasons** for sending alert. In the **Available,** list select the events and drag them to **Visible** list by or by a double mouse click.

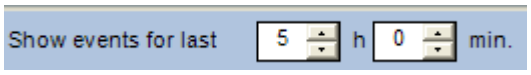
For the reversed action, use the tab. If you want to select more events, press the left mouse button on the list to scroll up or down, then use the arrow tab .



In the Columns tab, you can define the type of the columns displayed in the table and their order.

Using the tabs and create the list of columns in the right window.

Using the tabs and define the order of appearance of the columns



settings to show the events occurred within the period to display the last events in the system. For example, the events for the last 5 hours 0 minutes will be displayed while the rest of the events are hidden and exported to the database.

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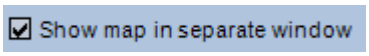
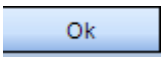
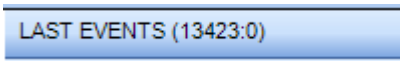
If you check 

then the map will be displayed in a separate window.

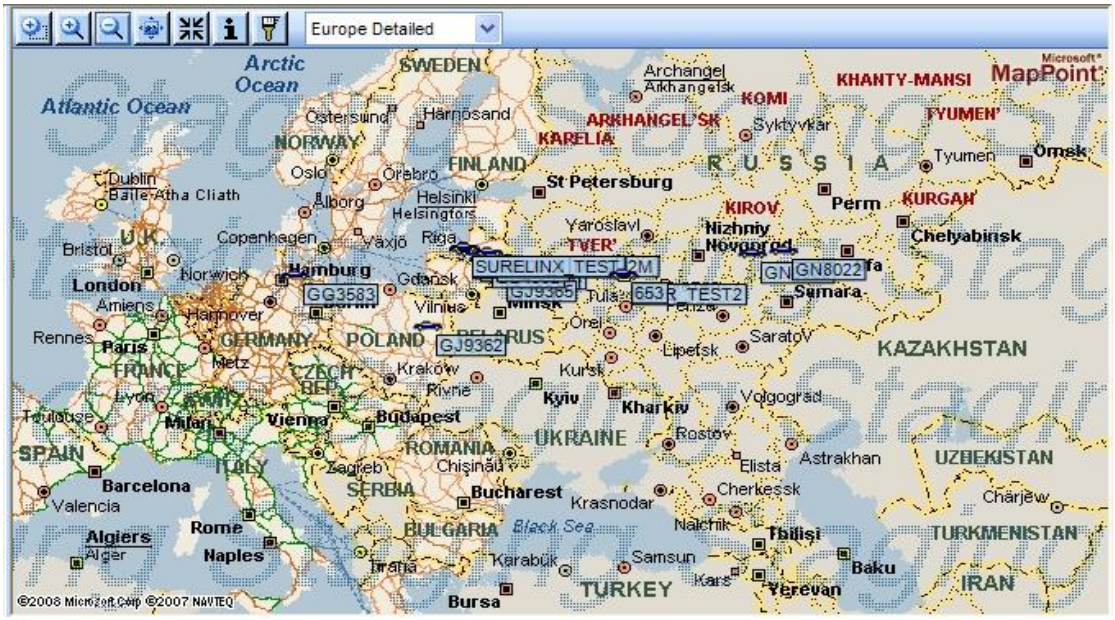
To save the settings press 



the **LAST EVENTS** in the left corner the tables indicates that since the last time the client program was launched (accessed) 13423 messages arrived into the system of which 0 is displayed in the table, in accordance with the chosen criteria.

5.15. Working with the map system.

The map system is supplied with a package of maps upon user's request. The Main window displays the map with the tab bar.



5.15.1. Zooming the maps

To display a more detailed map press the tab
Press and hold the left mouse button and with the mouse pointer on screen outline the area you want to see in more detail.

By pressing , you can zoom in (higher resolution) or zoom out (lower resolution).

5.15.2. Moving the maps

Press the button and move the pointer to the map, you will see the icon (hand). While holding the left mouse button, you can move the map to the necessary map area.

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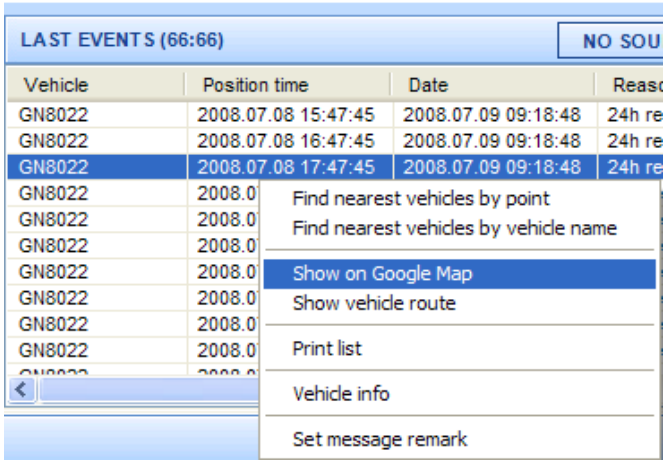
5.15.3. Centering

Press . Then move the pointer to the point, which you select to be the center of the map, then press the left mouse button.

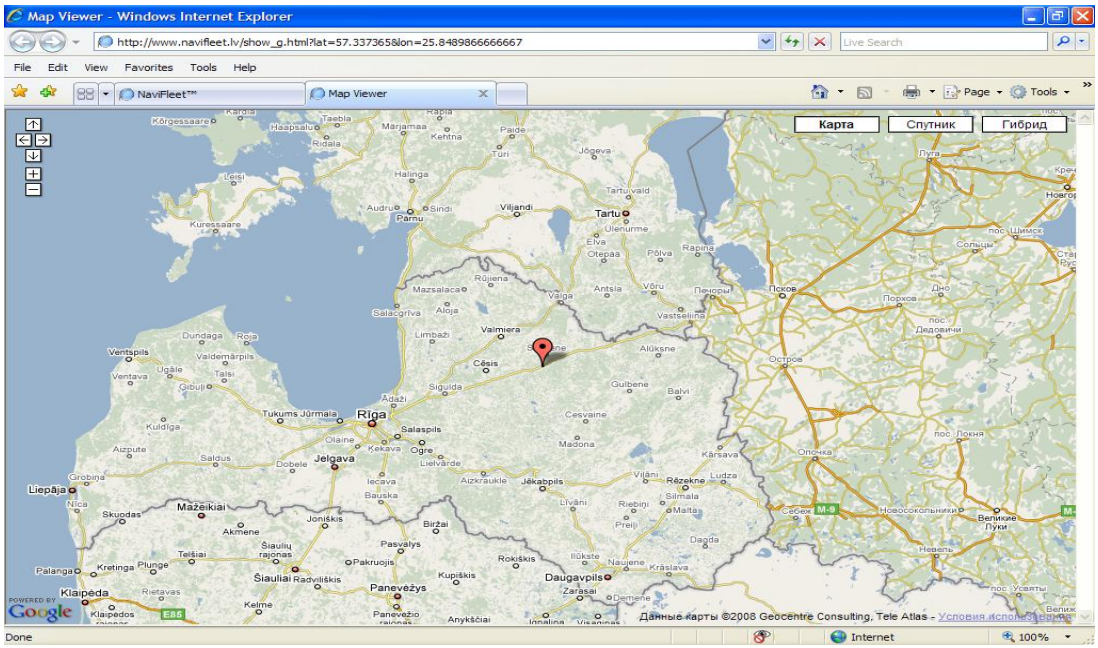
5.15.4. Removal of the information on a map

Pressing the tab removes all vehicles information from the map

5.15.5. Google Map

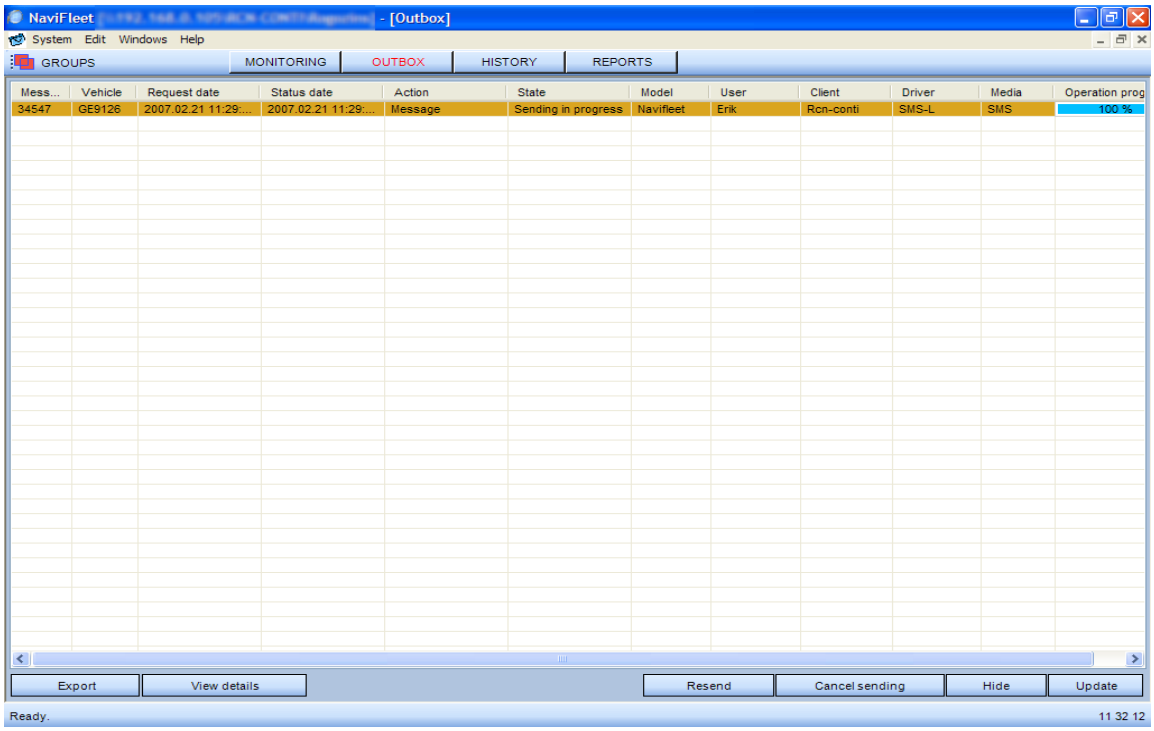


To display the location on the Google map, press the right mouse button on the message containing the coordinates you are looking for coordinates in section **EVENTS** and in the menu select **Show on Google Map.** Then the **Map Viewer** will open up in the Internet Explorer showing the point. To change the mode, scale and position of the maps use the built-in tools of the maps.



5.16. Outbox Module (Outgoing messages)

To work with the window **OUTBOX** press the OUTBOX tab
The Module makes it possible to display the message sending process.



- Yellow Wait sending
- Green Sending in progress
- Red – Sending failed

To export messages into the Excel format press Export
To view the details of the message on (the packets sent), select the message and press View details

In addition, in the window you can manage messages using the tabs (accessible for the administrator):

Resend | Cancel sending | Hide | Update

Resend; Cancel sending; Hide the message; Refresh screen

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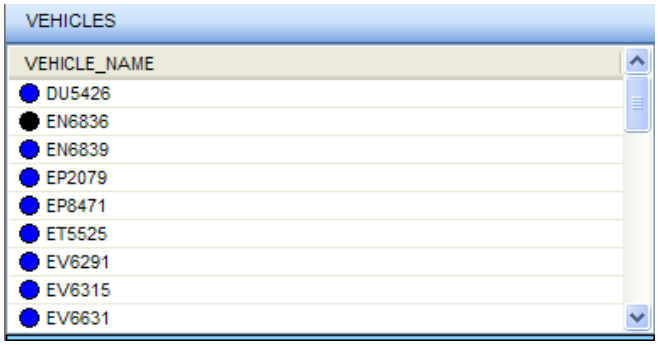
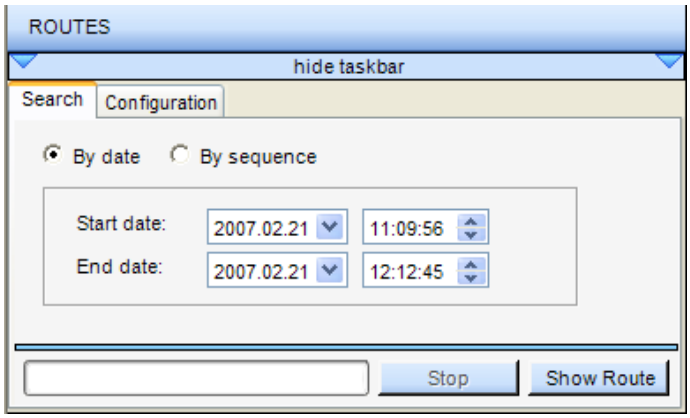
5.17. Working with routes

To work with the Routes Module press the tab HISTORY.

5.17.1. Route Setting



Select the vehicle.



In the **Routes** select the time interval to show the route of motion

Then press Show Route

As a result, the route will be displayed on the map while all events for the chosen period will be displayed in the table.

Select the event of interest in the table and its location will appear on the map of the route.

5.17.2. Setting the tables of parameters

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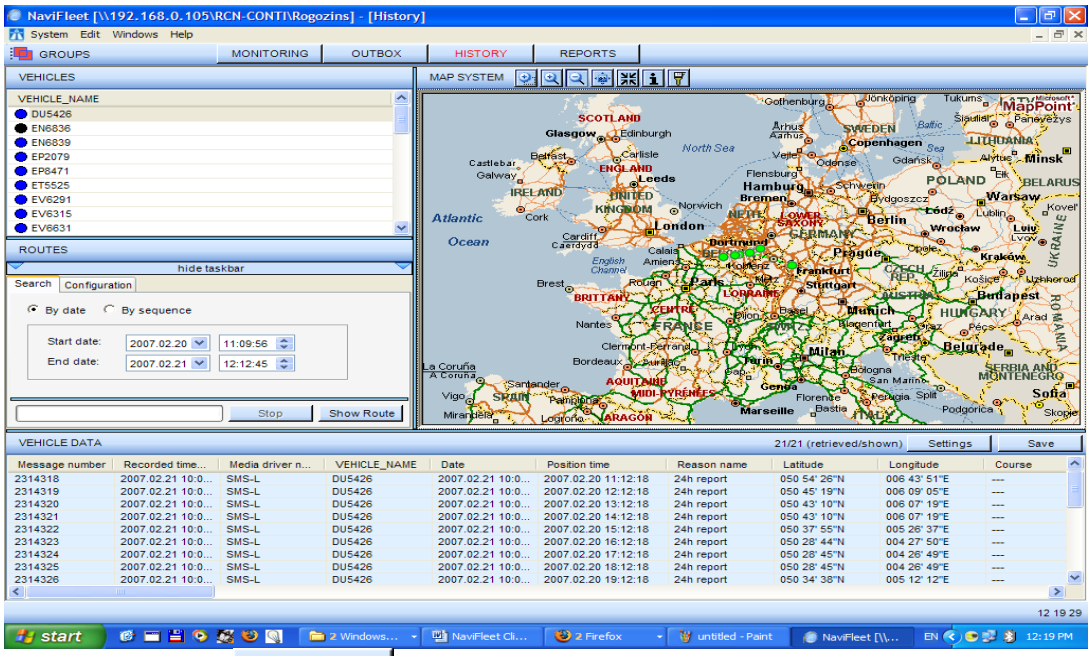
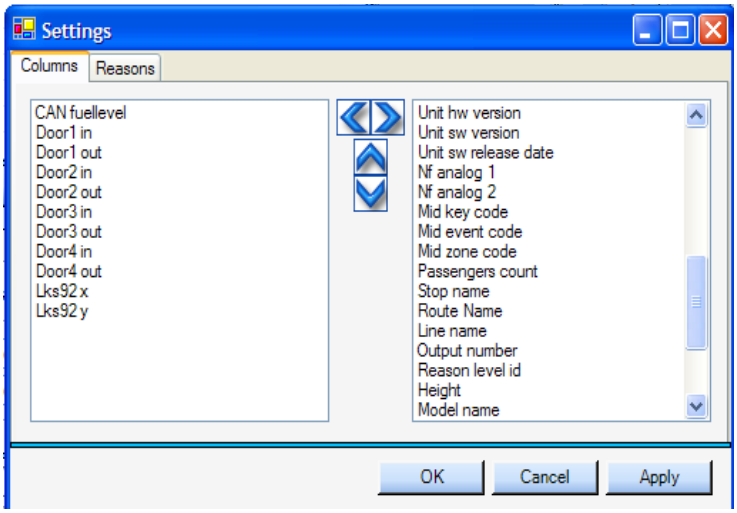


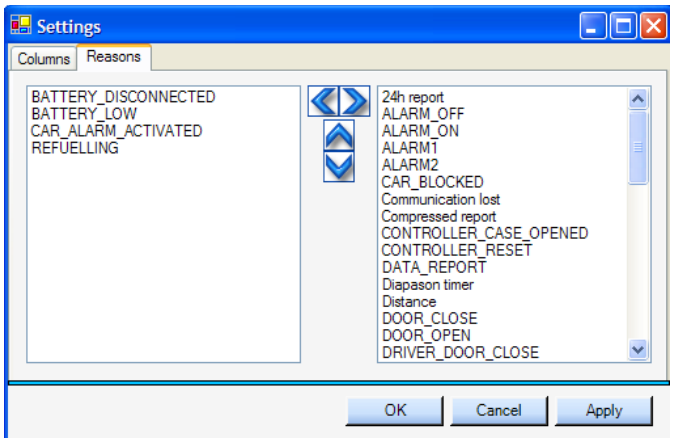
Then press the tab Settings



Columns – determines the type of the displayed columns and the order of their appearance whichever better suits the user.

Using the tabs and create the list of the columns in the right window.

Using the tabs and define the order of appearance of the columns



To select the events by which the records to be selected mark the event and add it to the right window using the arrow buttons . To remove an event, click on it and then press

Then press the tab OK

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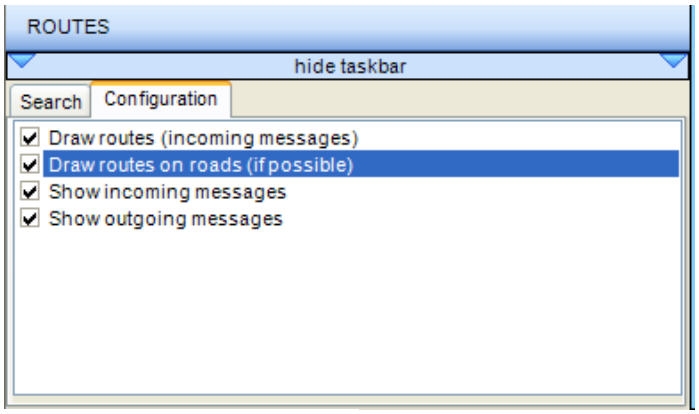
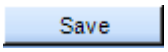
5.17.3. Configuration of the route



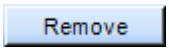
☑ Draw routes (incoming messages) - Displays the route without showing the position on the actual road
☑ Draw routes on roads (if possible) - Displays the route and shows the position on the actual road (it works only with the MapPoint).
☑ Show incoming messages - A displays only incoming message, the route is not shown. Clicking a message will show the displays coordinates on the map (highlighted blue in the table)
☑ Show outgoing messages - Displays all outgoing messages for the chosen period (highlighted pink in the table).

5.17.4. Data exporting.

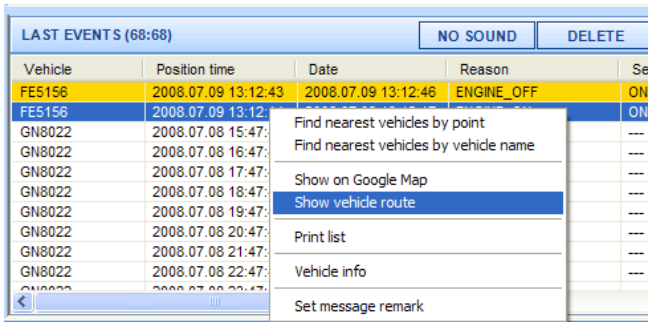
To export data of the route by the selected criteria into an. xls,*. html or .csv file, press 

to save it.

5.17.5. Removing data (accessible to the administrator)

To remove messages from the database select the message and press 

5.17.6. Route Setting in TRACKING module



While in the TRACKING module press the right mouse button on the message in the EVENTS section and select **Show Vehicle Route** in the menu**.** The route will be created point-to- point using all the points displayed in the **EVENTS** section.

5.17.6.1. Route Setting for the last 24 hours (TRACKING module)

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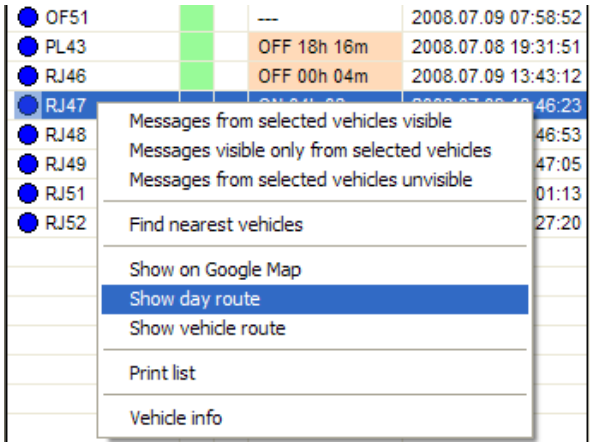
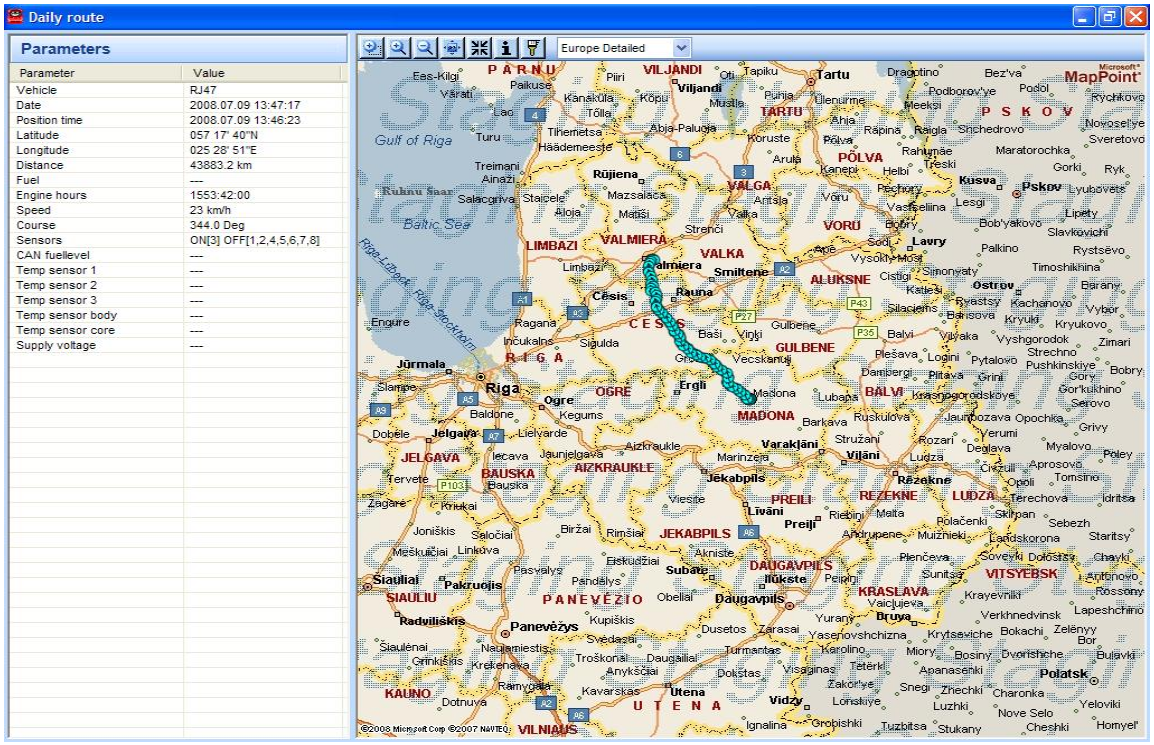
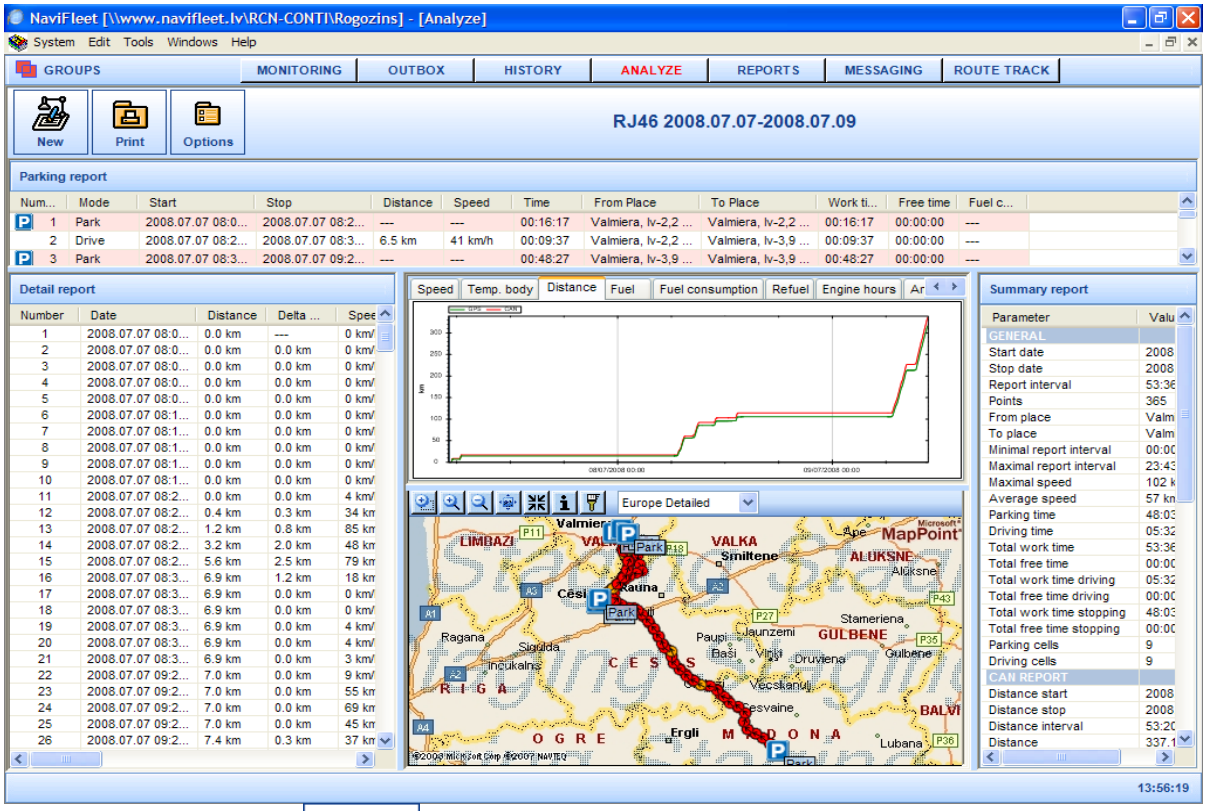


While in **TRACKING** module press the right mouse button on the vehicles in the **VEHICLE** section and in the menu select **Show Vehicle Route for the last 24 hours. The route for the last 24 hours** window will appear displaying the route of the vehicle.

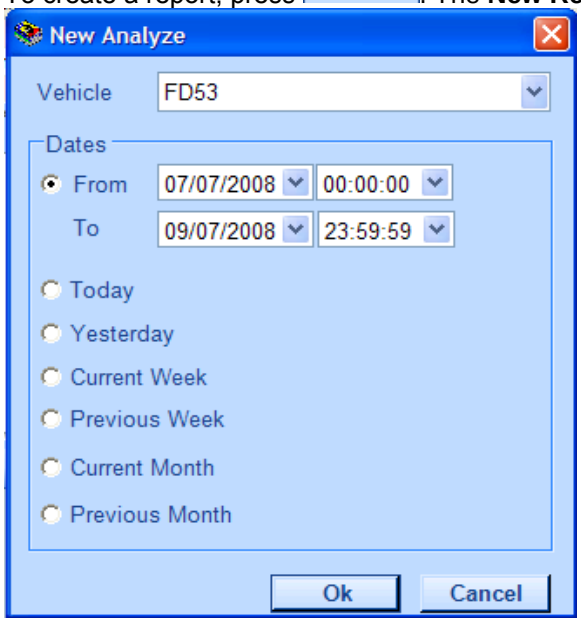


5.18. The Analysis Module

In the main window Press ANALYZE.



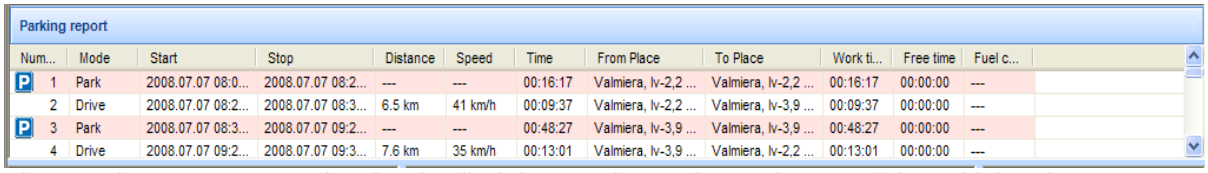
To create a report, press New. The **New Report** window will appear.



Select the vehicle from the list of Vehicles. Select the date of the report in the Data field. You can select the date of the report using the calendar, by marking From and choosing the date of the

beginning/ end of the report, or select a specific date (Today, Yesterday, Current/Last week/month). After selecting the vehicle and the date, press Ok.

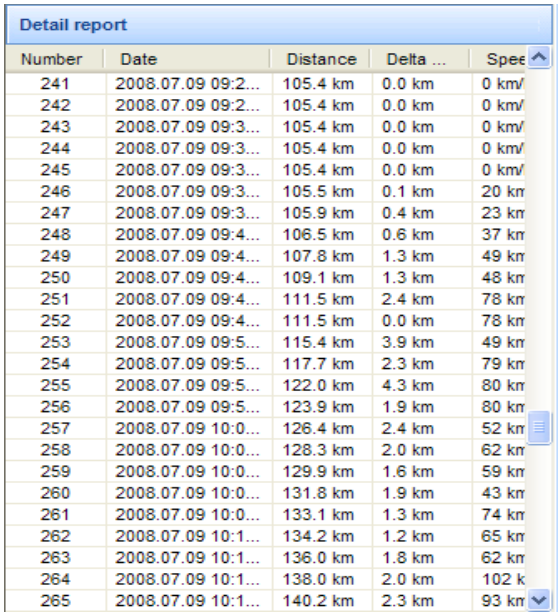
5.18.1. Stops report.


Parking report

Num...	Mode	Start	Stop	Distance	Speed	Time	From Place	To Place	Work ti...	Free time	Fuel c...
1	Park	2008.07.07 08:0...	2008.07.07 08:2...	---	---	00:16:17	Valmiera, lv-2,2 ...	Valmiera, lv-2,2 ...	00:16:17	00:00:00	---
2	Drive	2008.07.07 08:2...	2008.07.07 08:3...	6.5 km	41 km/h	00:09:37	Valmiera, lv-2,2 ...	Valmiera, lv-3,9 ...	00:09:37	00:00:00	---
3	Park	2008.07.07 08:3...	2008.07.07 09:2...	---	---	00:48:27	Valmiera, lv-3,9 ...	Valmiera, lv-3,9 ...	00:48:27	00:00:00	---
4	Drive	2008.07.07 09:2...	2008.07.07 09:3...	7.6 km	35 km/h	00:13:01	Valmiera, lv-3,9 ...	Valmiera, lv-2,2 ...	00:13:01	00:00:00	---

The Start/Stop report contains the detailed data on the motion and stops of the vehicle. The report contains the data indicating time, distance, speed and Points of Interest (POI). When stops are selected, the detailed report will show all messages pertaining to the period.

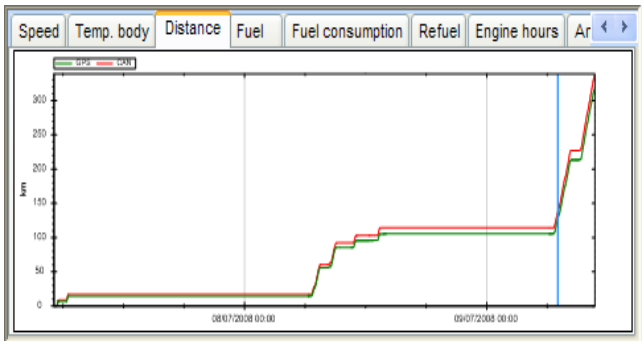
5.18.2. The Detailed report.


Detail report

Number	Date	Distance	Delta ...	Spee
241	2008.07.09 09:2...	105.4 km	0.0 km	0 km/
242	2008.07.09 09:2...	105.4 km	0.0 km	0 km/
243	2008.07.09 09:3...	105.4 km	0.0 km	0 km/
244	2008.07.09 09:3...	105.4 km	0.0 km	0 km/
245	2008.07.09 09:3...	105.4 km	0.0 km	0 km/
246	2008.07.09 09:3...	105.5 km	0.1 km	20 km
247	2008.07.09 09:3...	105.9 km	0.4 km	23 km
248	2008.07.09 09:4...	106.5 km	0.6 km	37 km
249	2008.07.09 09:4...	107.8 km	1.3 km	49 km
250	2008.07.09 09:4...	109.1 km	1.3 km	48 km
251	2008.07.09 09:4...	111.5 km	2.4 km	78 km
252	2008.07.09 09:4...	111.5 km	0.0 km	78 km
253	2008.07.09 09:5...	115.4 km	3.9 km	49 km
254	2008.07.09 09:5...	117.7 km	2.3 km	79 km
255	2008.07.09 09:5...	122.0 km	4.3 km	80 km
256	2008.07.09 09:5...	123.9 km	1.9 km	80 km
257	2008.07.09 10:0...	126.4 km	2.4 km	52 km
258	2008.07.09 10:0...	128.3 km	2.0 km	62 km
259	2008.07.09 10:0...	129.9 km	1.6 km	59 km
260	2008.07.09 10:0...	131.8 km	1.9 km	43 km
261	2008.07.09 10:0...	133.1 km	1.3 km	74 km
262	2008.07.09 10:1...	134.2 km	1.2 km	65 km
263	2008.07.09 10:1...	136.0 km	1.8 km	62 km
264	2008.07.09 10:1...	138.0 km	2.0 km	102 k
265	2008.07.09 10:1...	140.2 km	2.3 km	93 km

The detailed report shows all messages from the vehicle arrived to the base for the selected period.

5.18.3. Charts.



The chart section displays the lines for a chosen period indicating: **Speed, Distance, Fuel, Fuel Consumption, Engine Hours, Refills, Sensor 1, and Sensor 2.** To display the curve press the tab.

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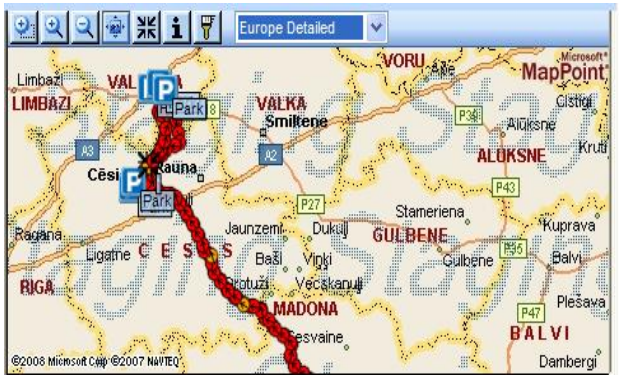
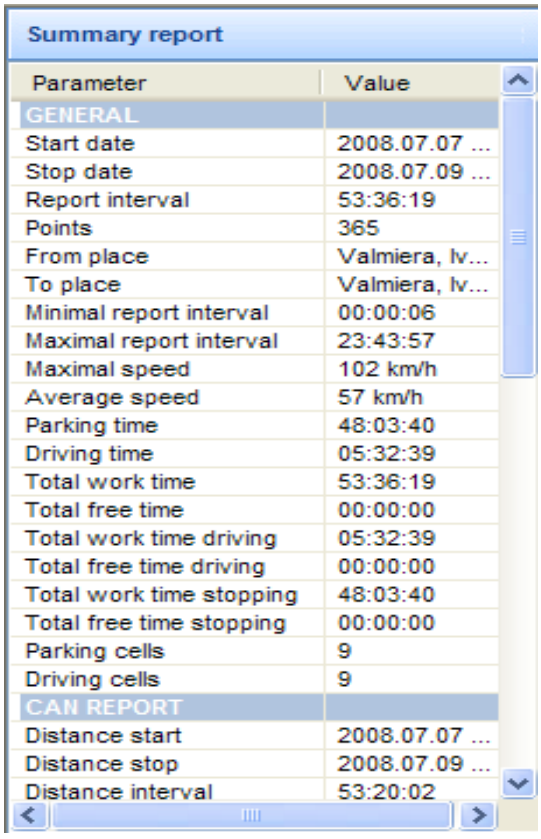
5.18.4. The Map.



The Map section shows the entire route covered for the selected period. Stops are indicated by the P icon.

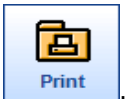
5.18.5. Summary report


Summary report

Parameter	Value
GENERAL	
Start date	2008.07.07 ...
Stop date	2008.07.09 ...
Report interval	53:36:19
Points	365
From place	Valmiera, lv...
To place	Valmiera, lv...
Minimal report interval	00:00:06
Maximal report interval	23:43:57
Maximal speed	102 km/h
Average speed	57 km/h
Parking time	48:03:40
Driving time	05:32:39
Total work time	53:36:19
Total free time	00:00:00
Total work time driving	05:32:39
Total free time driving	00:00:00
Total work time stopping	48:03:40
Total free time stopping	00:00:00
Parking cells	9
Driving cells	9
CAN REPORT	
Distance start	2008.07.07 ...
Distance stop	2008.07.09 ...
Distance interval	53:20:02

The Summary report section contains all data for a selected period. There are 6 sections in the final report:
General: contains the general data on the covered route for a selected period.
CAN report contain the CAN data (distance, fuel, engine hours) for a selected period?
Sensors report contains the analogue sensor data.
Analog 1 refuels the time and the amount of the filled fuel in liters.
GPS report contains GPS data
Reasons why notifications have been sent

5.18.6. Printing reports.

To print the report, press the tab 

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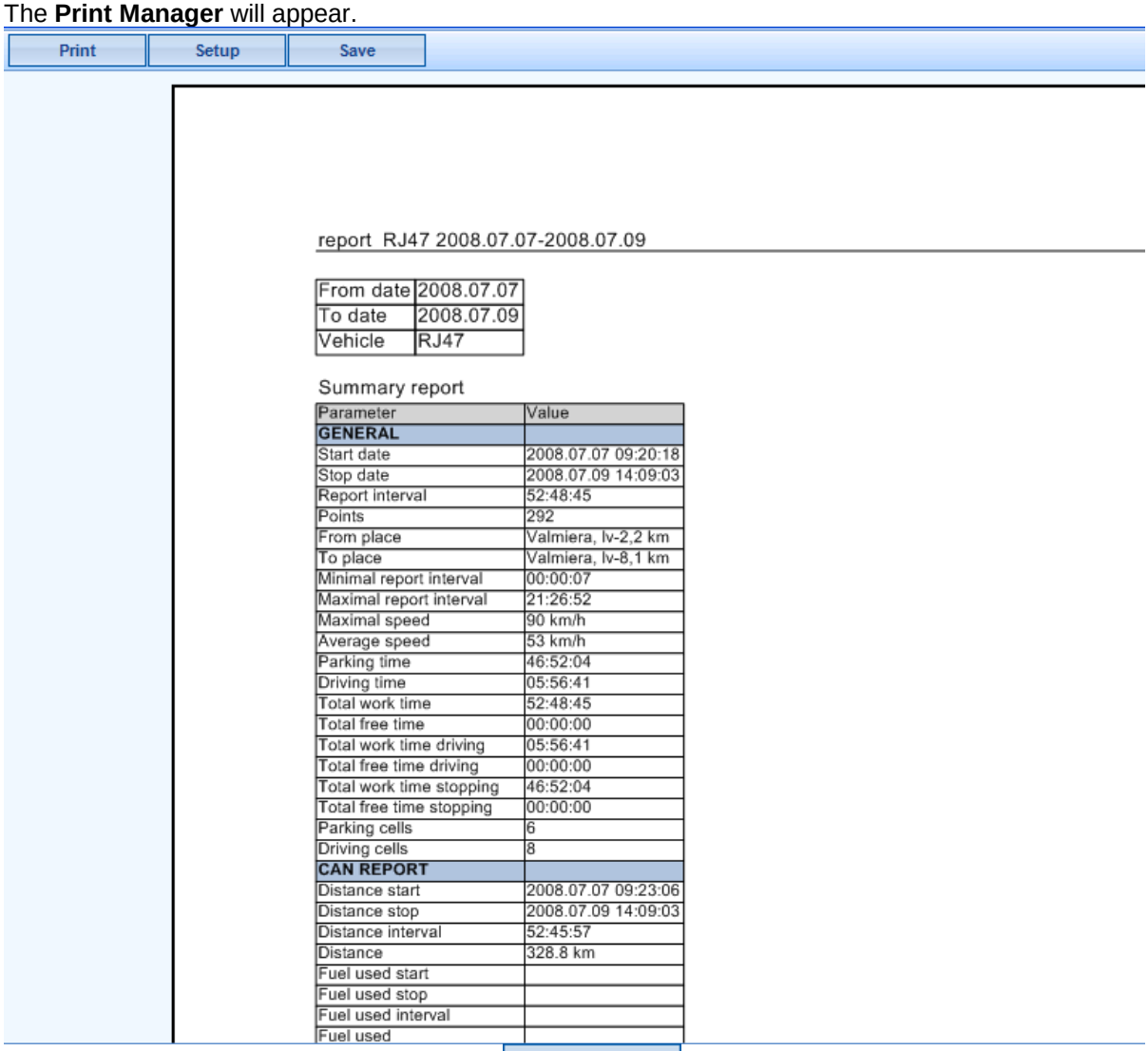
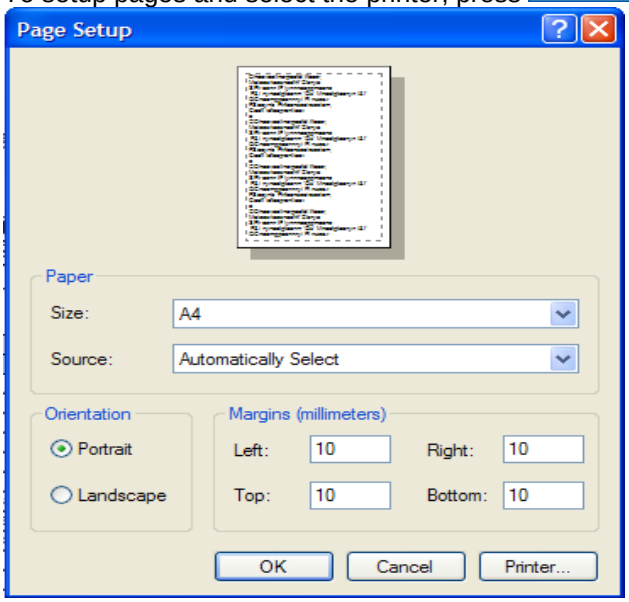
The **Print Manager** will appear.



To setup pages and select the printer, press

.



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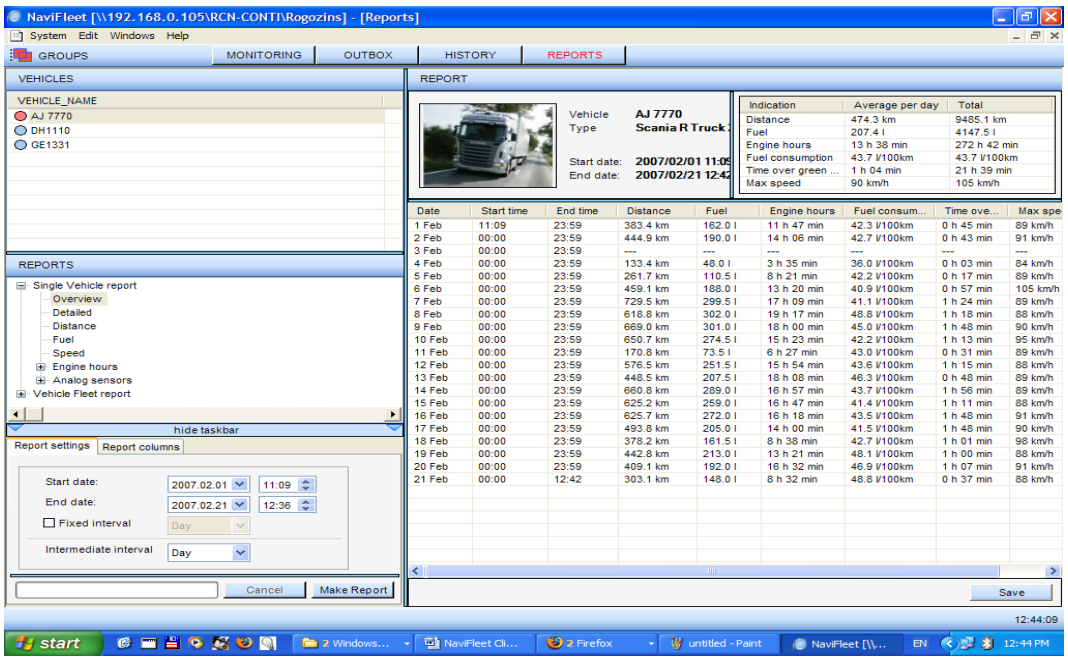
After setting up pages, press OK.

Press Print to print the report.

5.19. Reports Module

5.19.1. Selecting the report type

In the main program window select ОТЧЁТЫ (reports)



The following reports are possible

- General report on the vehicle
- Detailed report
- Distance report
- Fuel report
- Speed report
- Engine hours report
- Analog sensors report
- General vehicle fleet report

5.19.2. Report on a vehicle

5.19.2.1. General report on the vehicle

To make the report select **Overview** in the reports column
Then select the vehicle in the vehicle column

Select the report interval and then press the Make Report tab

The figure above shows a sample report.

The left upper panel of the report will display a photo of the vehicle or its graphic depiction, name, type, beginning /end date of the report period.
The general data for the period will appear in the upper right corner.

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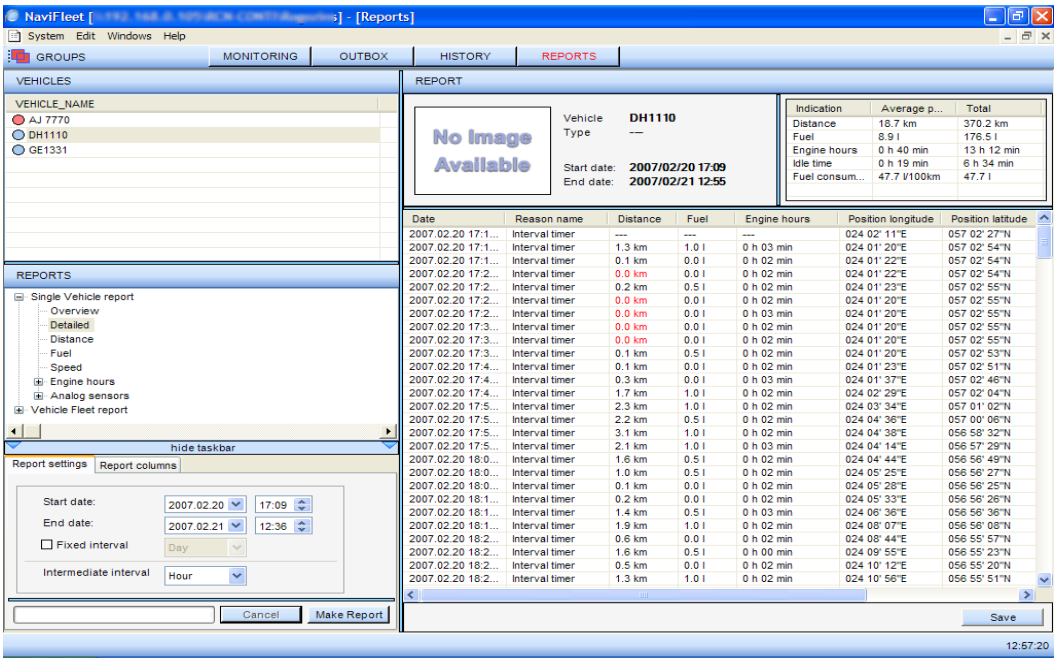
The detailed report for the chosen period will appear in the lower table

5.19.2.2. Detailed reports

To make the report select <**Detailed report** > in the reports column
Then select the vehicle in the vehicle column

Select the report interval and then press Make Report



The detailed report can contain such information as: coordinates, distance, fuel, engine hours, speed, the nearest Interest Point, etc. See article 5.19.4. «Setting the tables of parameters »)
The columns **Distance**, **Fuel, Engine hours** and **Stops Time** display the data pertaining to the period from one event to another. The data for the period and the average data for the intermediate interval appear in the upper right corner.

5.19.2.3. Distance report

To make the report select general report in the reports column
Then select the vehicle in the vehicle column

Select the interval to make the report and then press Make Report.

The general report for the period will appear in the upper right corner
The curve will show the graphical distance report
The detailed report for the chosen period will appear in the lower table.

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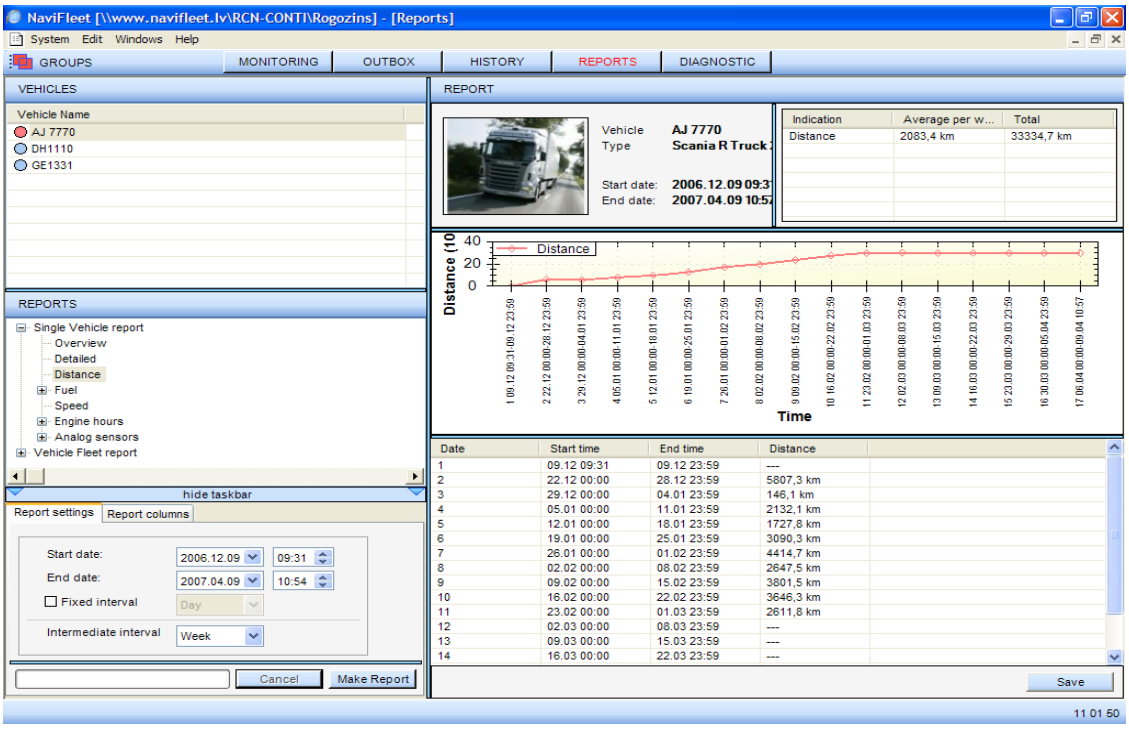
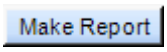
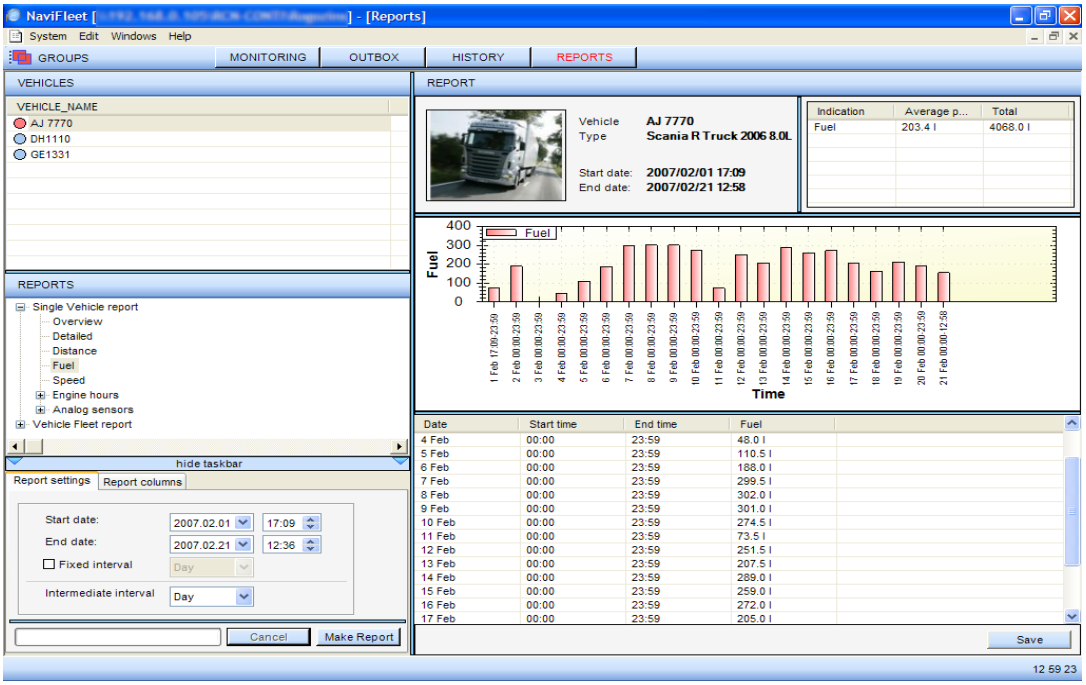


5.19.2.4. Fuel report

To make the report select **Fuel report** in the reports column
Then select the vehicle in the vehicle column

To make the report select the interval, then press 

The general report for the period will appear in the upper right corner
The chart will appear showing the report of the fuel consumption
In the lower table will appear the detailed report for the chosen period



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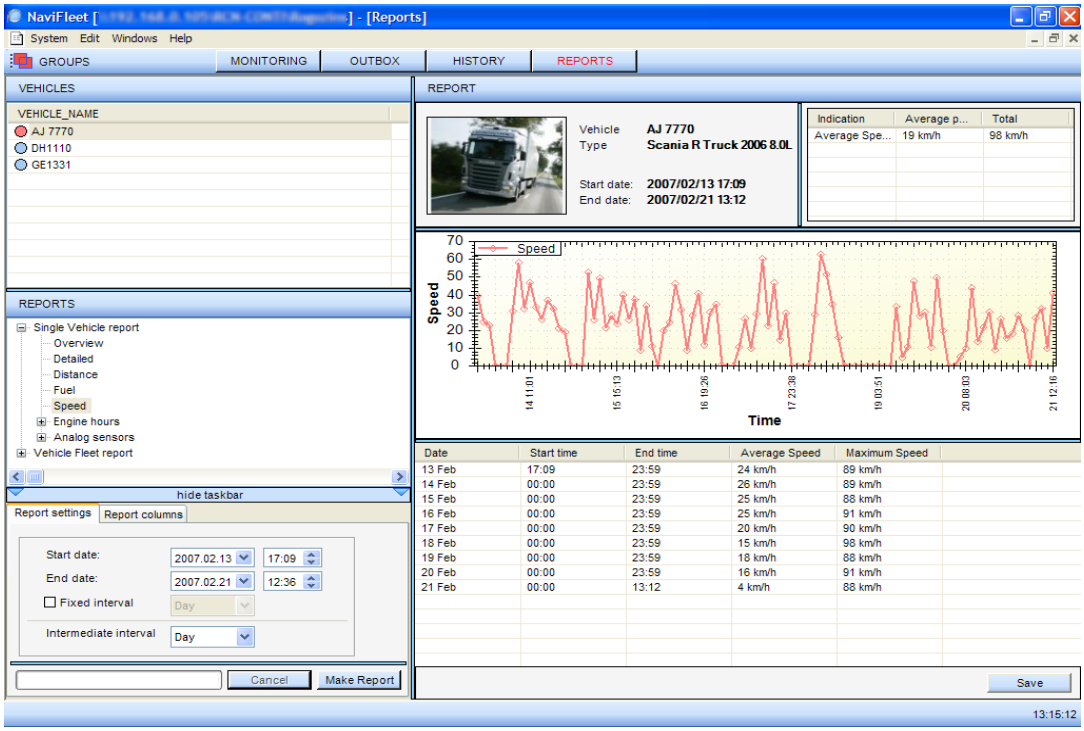
5.19.2.5. Speed report

To make the report select Report speed in the reports column
Then select the vehicle in the vehicle column

Select the interval to make the report a and then press Make Report

The average speed of motion general report for the period will appear in the upper right corner
The curve will show the graphical speed report
The detailed report for the chosen period will appear in the lower table



5.19.2.6. The Engine hours report.

To make the report select Report Engine hours in the reports column
Then select the vehicle in the vehicle column

Select the report interval and then press the Make Report tab

The general engine hours report will appear in the right upper corner
The chart will show the report on engine hours.
The lower table will display the detailed report for the chosen period.

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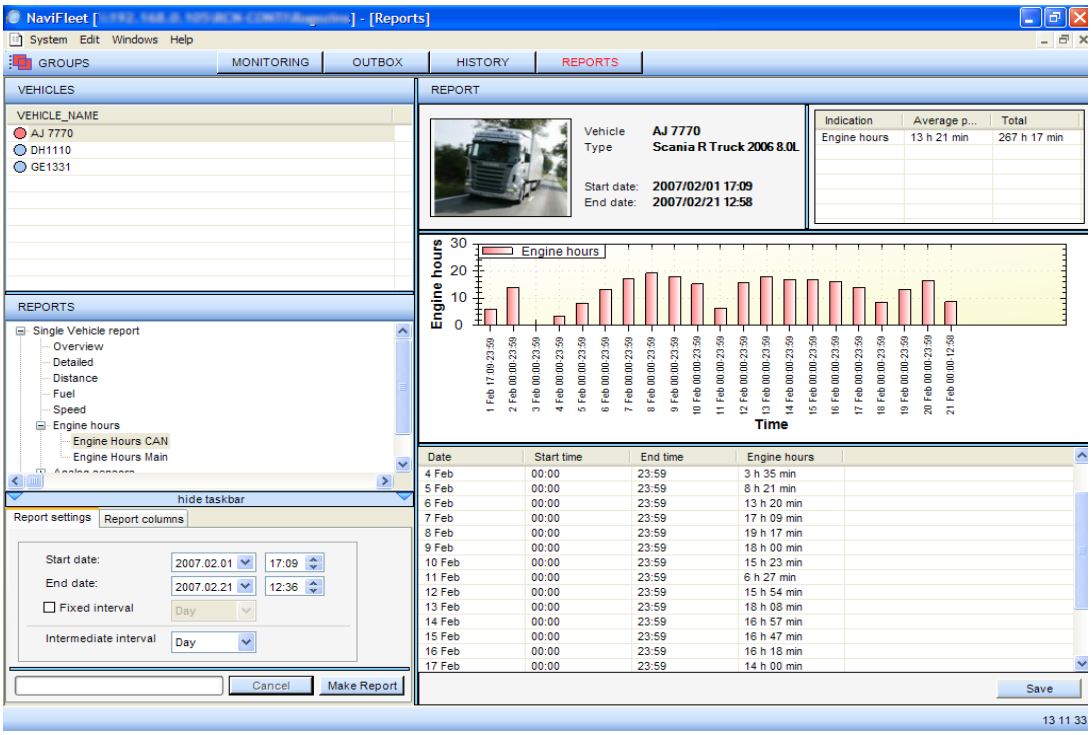
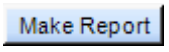
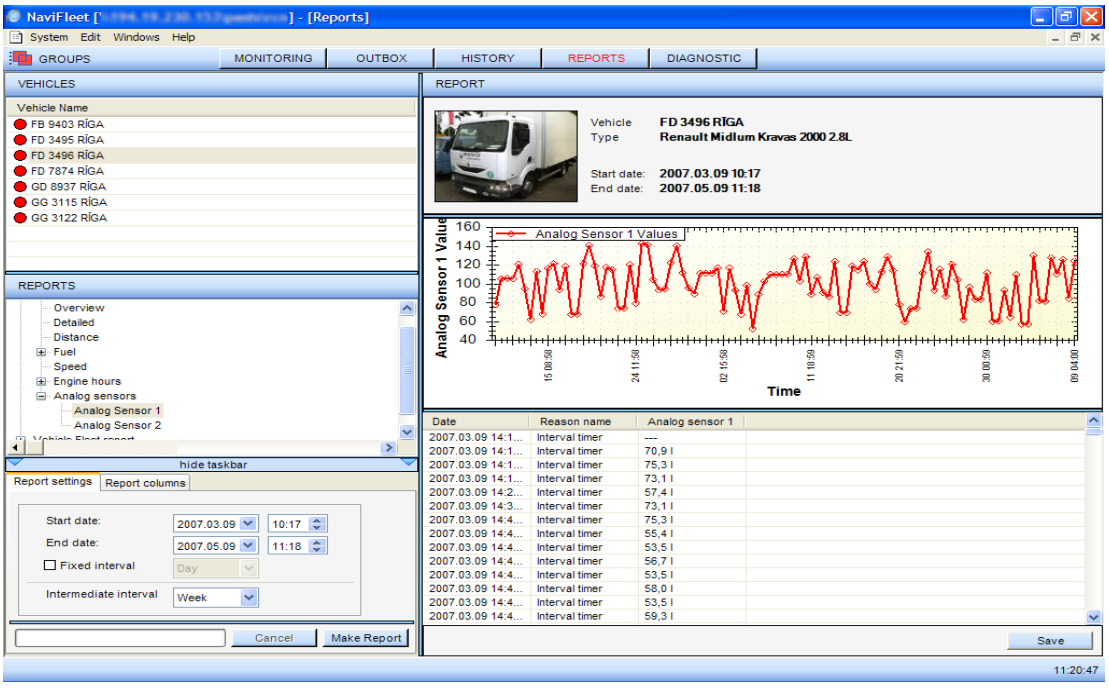


5.19.2.7. The analog sensor Report

To make the report select Report Analog sensors sensor 1 in the reports column
Then select the vehicle in the vehicle column

Select the interval to make the report and then press the tab 

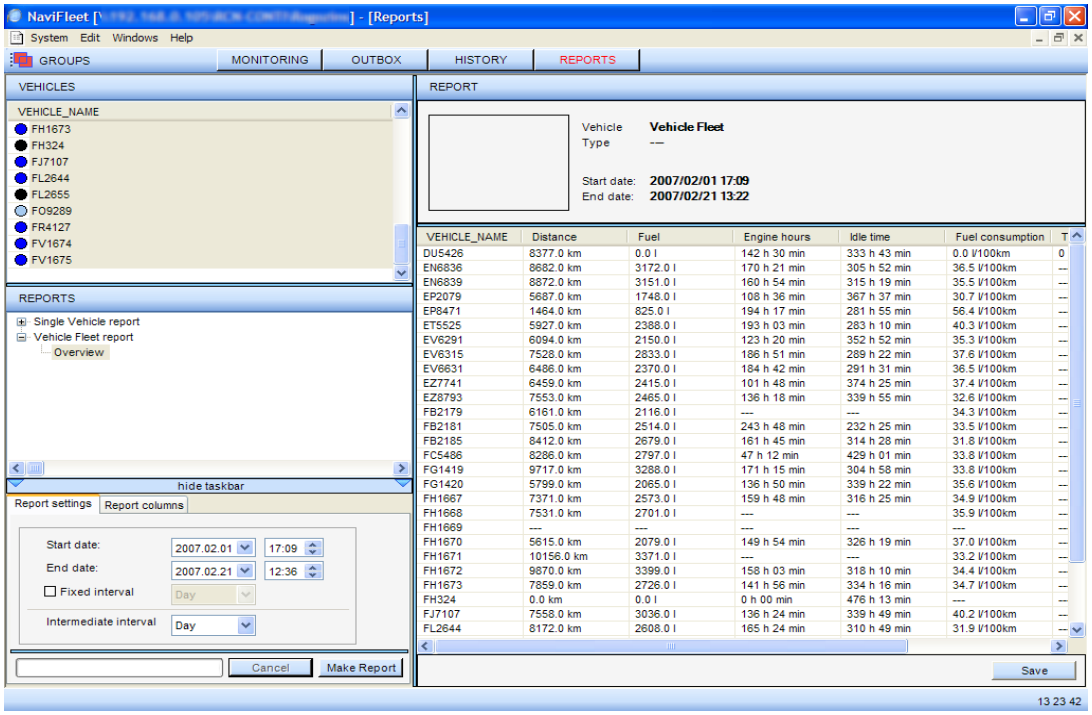
The analog sensor values/time graphic report will appear
The table below will show the detailed report for the chosen period



5.19.2.8. Vehicle fleet report

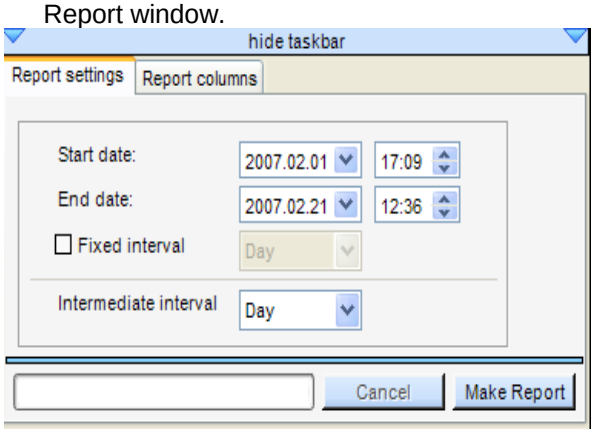
To make the vehicle fleet report select <**Overview**> in the column vehicle fleet report. Then select the vehicles in the in the vehicle column;

Select the period for making the report and then press Make Report



5.19.3. Selecting the report time period

Report window.



The report period can be set by:
- The beginning date and the end date
- The fixed time interval by setting the start time

To set the fixed interval check ☑ Fixed interval and select from the list

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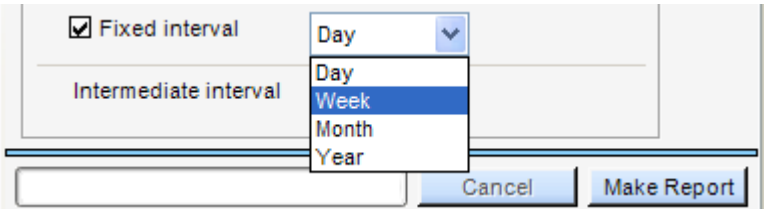
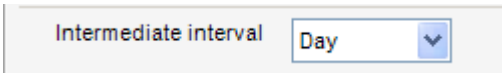


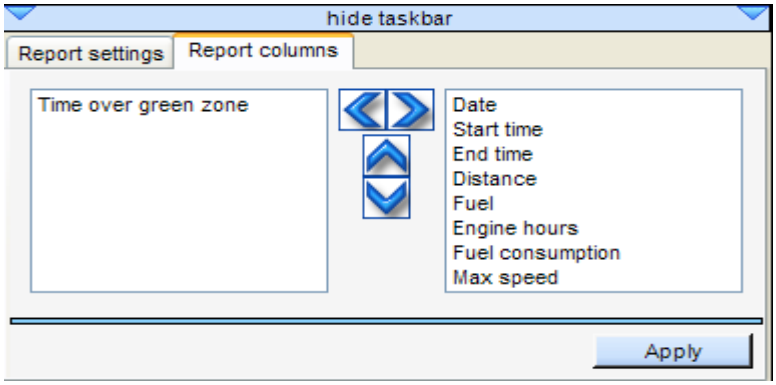
When <Day> is selected, the detailed report in the table will be shown in hours
When <Week> is selected, the detailed report in the table will be shown in days
When <Month> is selected, the detailed report in the table will be shown in days or weeks
When <Year> is selected, the detailed report in the table will be shown in weeks or months



The intermediate interval is used to show the more detailed data. The data to appear directly depends on the chosen interval. The points of the intermediate interval will be shown and in addition, the data for the intermediate interval will be displayed in the upper right corner of the Average column.

5.19.4. Setting the tables of parameters

In the **Report columns,** you can make settings of the table of the displayed parameters



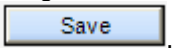
Columns – determines the type of the displayed columns and the order of their appearance whichever better suits the user.

Using the tabs and you can create the list of the columns in the right window.

Using the tabs and you can determine the order of their appearance of the columns

5.19.5. Data exporting

The Program allows exporting data to other systems in. xls, html and. csv files.

To export a report, press 

.
When the **Save As** window appears, create a file name and select the folder where you want to save it.

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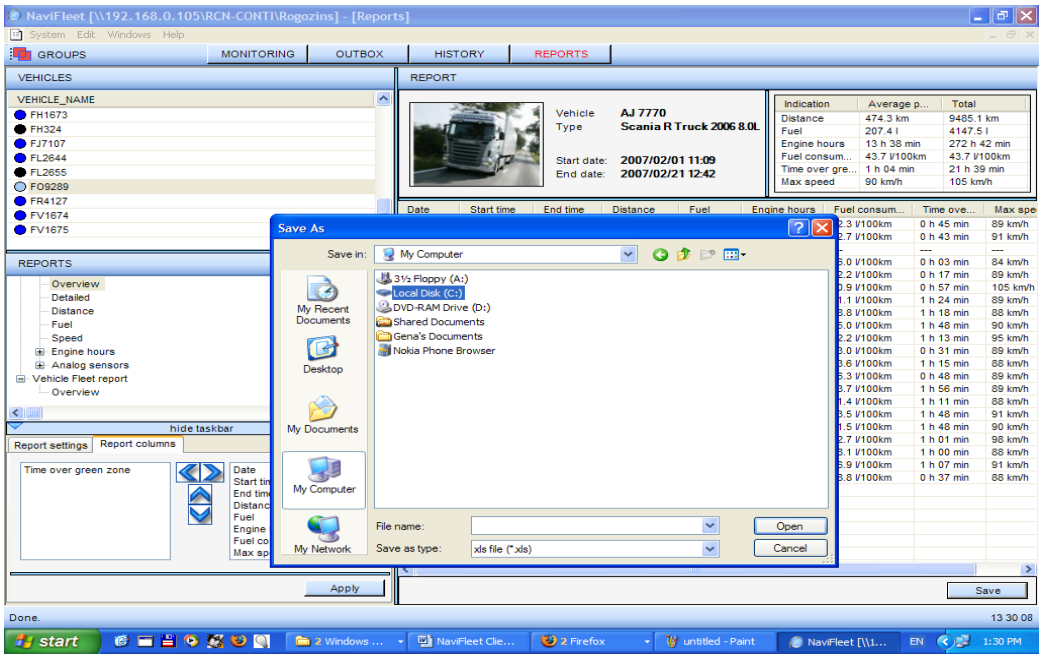
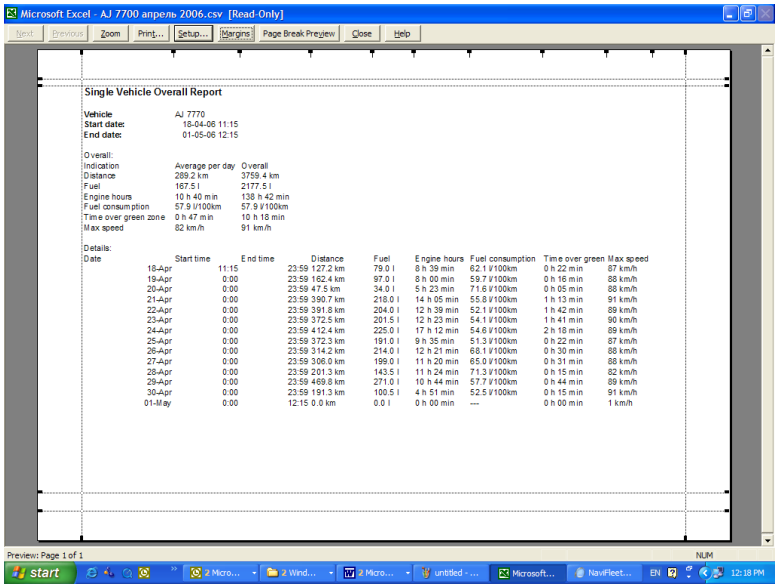


Open the file (.xls; .csv) in the MS Excel and print the report



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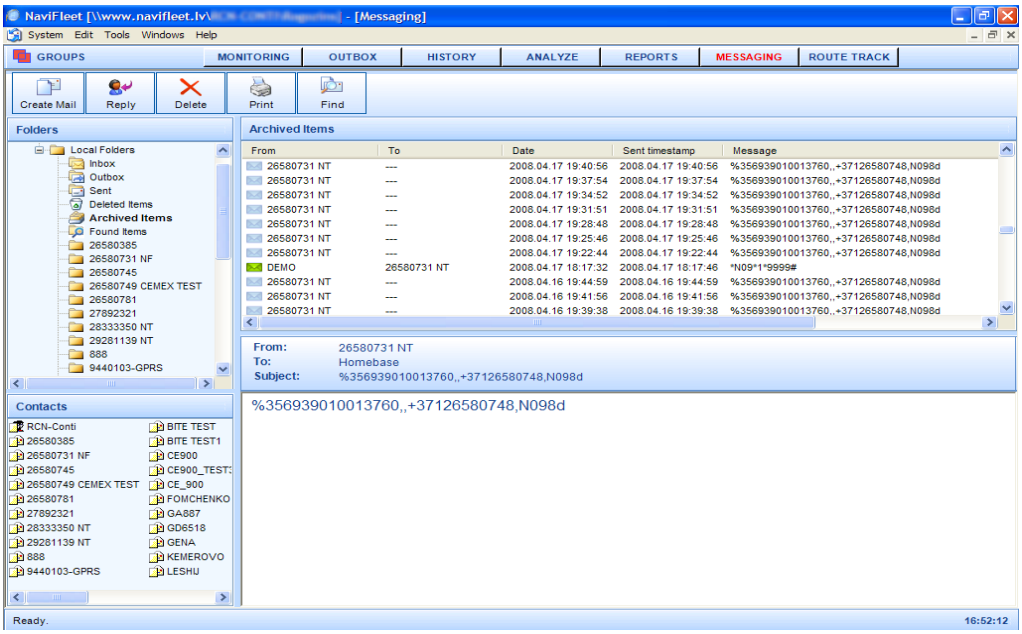
5.20. Messaging Module

In the main window, press MESSAGING.



All messages of the database are stored in the Folders section.

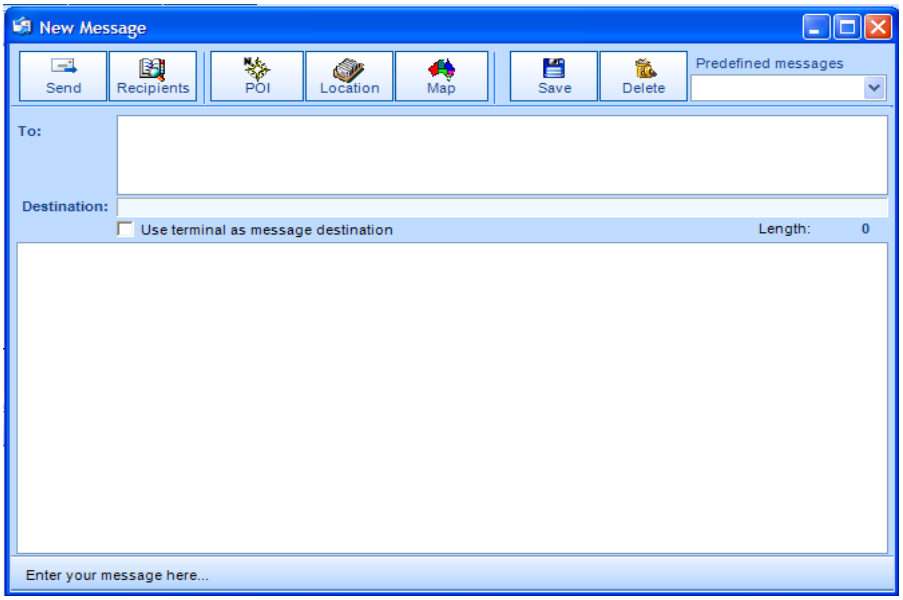
- **Received**: all text messages that have been received from the vehicles. The **unread** received messages are **highlighted bold**.
- **Outgoing:** the text messages that are being sent to the vehicle.
- **Sent:** the text messages that have been sent to the vehicle.
- **Deleted** the text messages that have been deleted
- **Found** the found text messages.

Clicking the folder will display the messages contained in the folder at the right side.
In the **Contact** section are recorded all vehicles of the selected group.

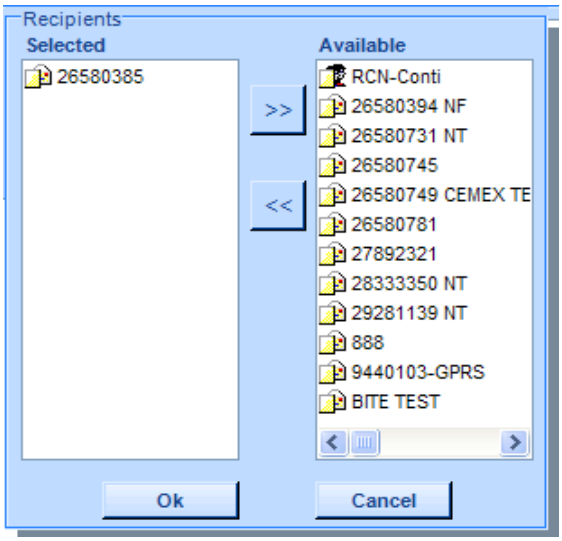
5.20.1. Sending messages.

To send a message press

or select New in the pop up menu.



5.20.2. Selecting recipient(s).



To choose the recipient press Recipients and in the opened **Recipients** window select the vehicle or vehicles by adding them to the **Selected** list using the << tab or by double clicking the vehicle.

After selecting the vehicle, press Ok.

5.20.3. Choosing the destination point.

5.20.3.1. Choosing destination point using the Point of Interest (POI).

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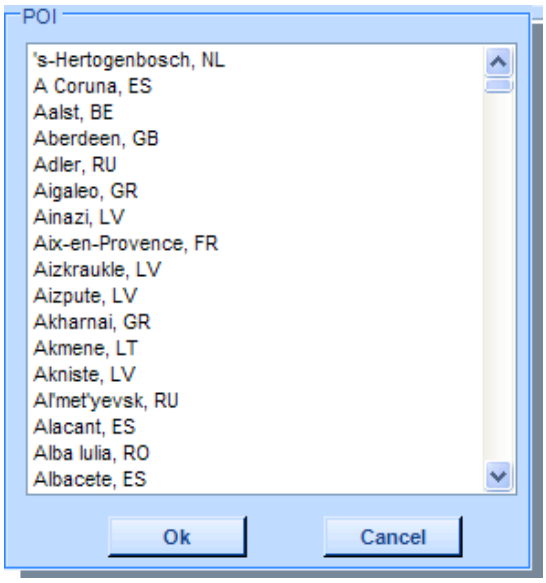
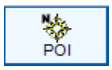
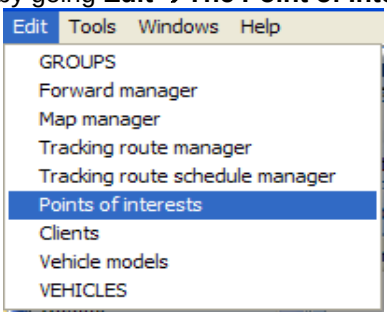
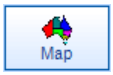


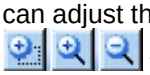
Press the 

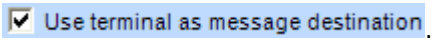
tab and in the appearing «POI» window select the point of Interest. Then the coordinates will appear in the line **Destination.**
Notice: The Points of Interest can be added or edited by going **Edit →The Point of Interest**.



5.20.3.2. Choosing destination points using the maps.

Press the tab 

, then in the opened up window «**Карта**» (Map) select the point by pressing and using the right button of the mouse. You can adjust the map scale using the scaling tabs  for more accurate positioning.
Then the coordinates will appear in the **Destination** line.

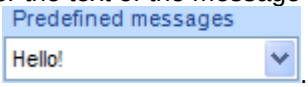
To send a message to the on-board terminal, check the square 

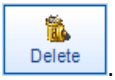
.

After entering the text of the message, press the tab

5.20.4. Creating /removing message templates.

Enter the text of the message and press

. From now on, this template will be located in the field 

. To insert a template, select the template from the list. To remove templates, press 

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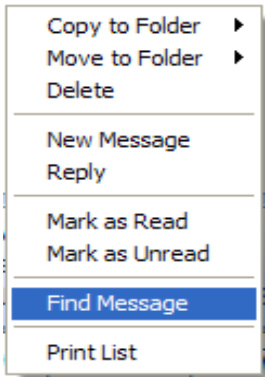
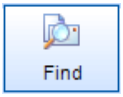
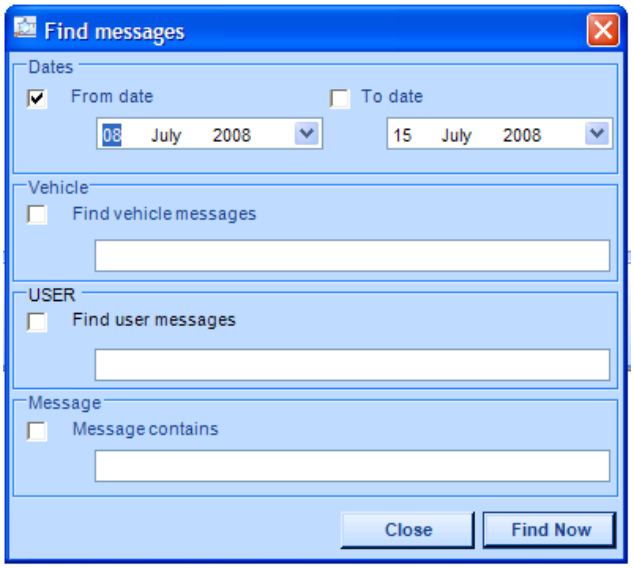
5.20.5. Finding messages.



To find a message press 

or select "**Find the message"** in the popup menu.

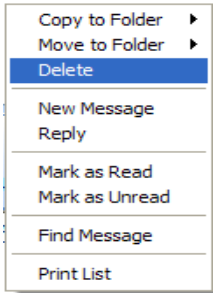


In the **Find message** window**,** enter the data of the message.
By date: enter the date of beginning and end of the search.
By sender: enter name of the sender.
By recipient: enter the name of the recipient (the vehicle).
By message: enter the phrase that the message contains.
To include or exclude the search criteria check or uncheck the square ☑.

To find the message press

.
Notice: all found messages would be located in the **Found** folder.

5.20.6. Deleting messages.



From the list of messages, Select the messages you want to be deleted and press

or press **Delete** in the appearing menu.

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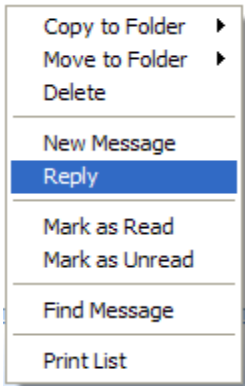
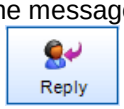
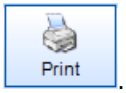
5.20.7. Replying to a message



To reply the message select the message from the list of messages and press 

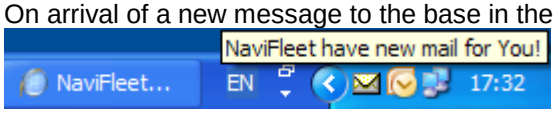
or press Reply in the pop up menu.

5.20.8. Printing messages.

To print one of the messages, select the message and press the tab 

.
To print the entire list of messages press Print list in the appearing menu.

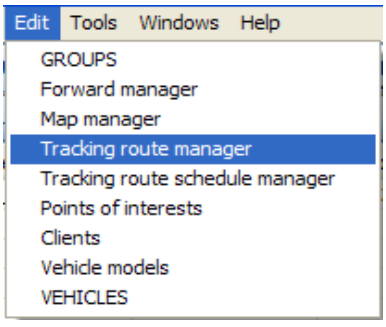
On arrival of a new message to the base in the system tray appears the icon.



5.21. Route Tracking Module

The manager allows to plot or assign routes and to trace the motion of the object along the given route.

5.21.1. Creating the route.



In the main menu select **Edit→Tracking route manager**

The window **Tracking Route Editor** will appear

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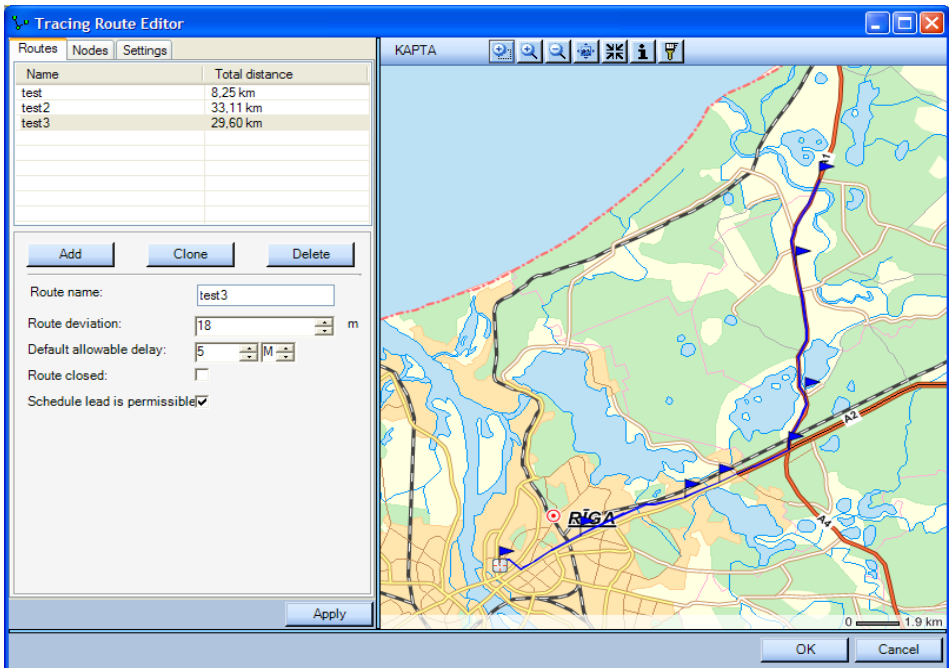
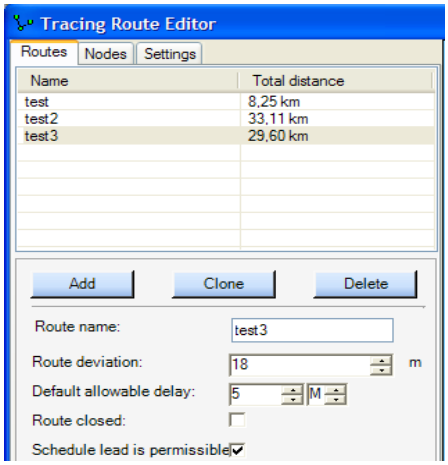
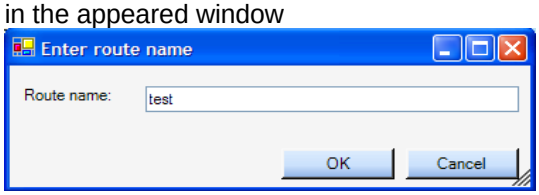




In the Routes window, you can manage and set routes. To add a route press Add and enter name of the route in the appeared window



To duplicate the already created routes press Clone and enter name of the route in the appearing window.

To remove of the route press Delete

To change the name of the route enter the other name in the field Route name: route_name
To change deviations from the route the route 'leeway') change the value in the field Route deviation: 18 m. The value is set in meters. The minimal value is 10 meters.
To change the default allowable delay of the route, change the value in the fields Default allowable delay: 2 M. The digital value is set in the field 2, while the time values (seconds, minutes, hours and days) are set in the field M.
To create recurring or loop the route check ☑ in the Route closed:
To permit entering /leaving the time zone prior to the assigned time (not taking into account the allowable time delay) check the square Schedule lead is permissible ☑
To save **all** the settings press Apply

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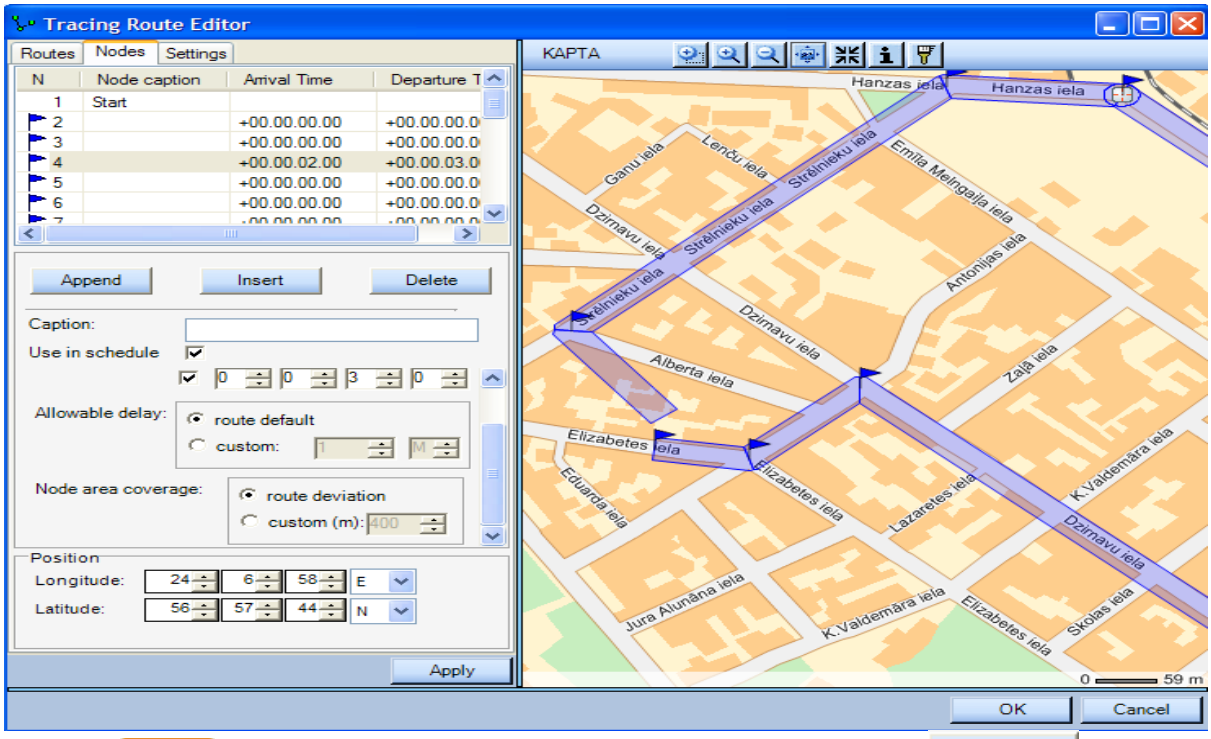
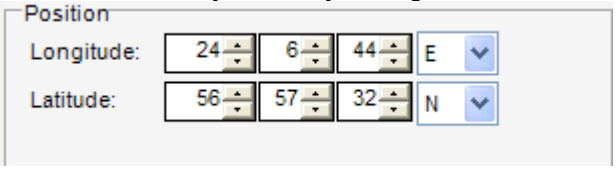
5.21.2. Route Setting.



Open the Nodes. The Nodes are used for route setting. To add a node press Append. An icon will appear on the map, it is the starting point of the route. Select the desired location using the tools of the map and use the **right mouse button**, first clicking . In addition, the nodes of the route can be set by manually setting coordinates in the **Position** section.

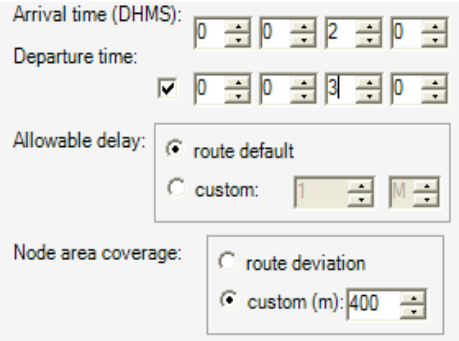


The subsequent nodes of the route can be added in the same fashion. It is also possible to add the intermediate node between the nodes by using the Insert tab. a node will be added in the middle between the nodes.

To remove a node, select the node to be removed and press Delete.

To change the name of a node, select the node and enter the name in the field Caption: node_name.

To trace the route in the schedule check the square Use in schedule ☑. Once this square is checked, you want to add some more data:

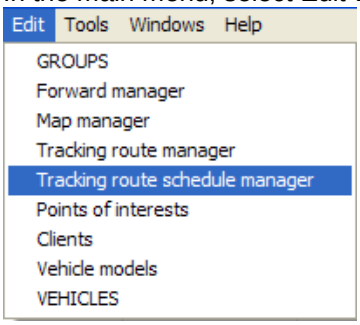


Arrival time is the time of arrival at the node zone. **Departure time** is the time of leaving the node zone (optional). Each of the times is set from the start time of the route.

Allowable delay is the allowable delay for arrival /departure to/from the node zone. When route default is selected the value is assigned by default Routes-> Default allowable delay. If you choose custom:, the new value for the Allowable delay is to be set.
Node area coverage is the coverage of the node, which arrival/departure has been completed. When route deviation is selected the values Routes->Route deviation is assumed. Should you choose custom (m): 400,
Enter the new value in meters.

5.21.3. Creating the schedule

In the main menu, select Edit→**Tracing route schedule manager**



The **Tracing Route Schedule Manger** window will appear.

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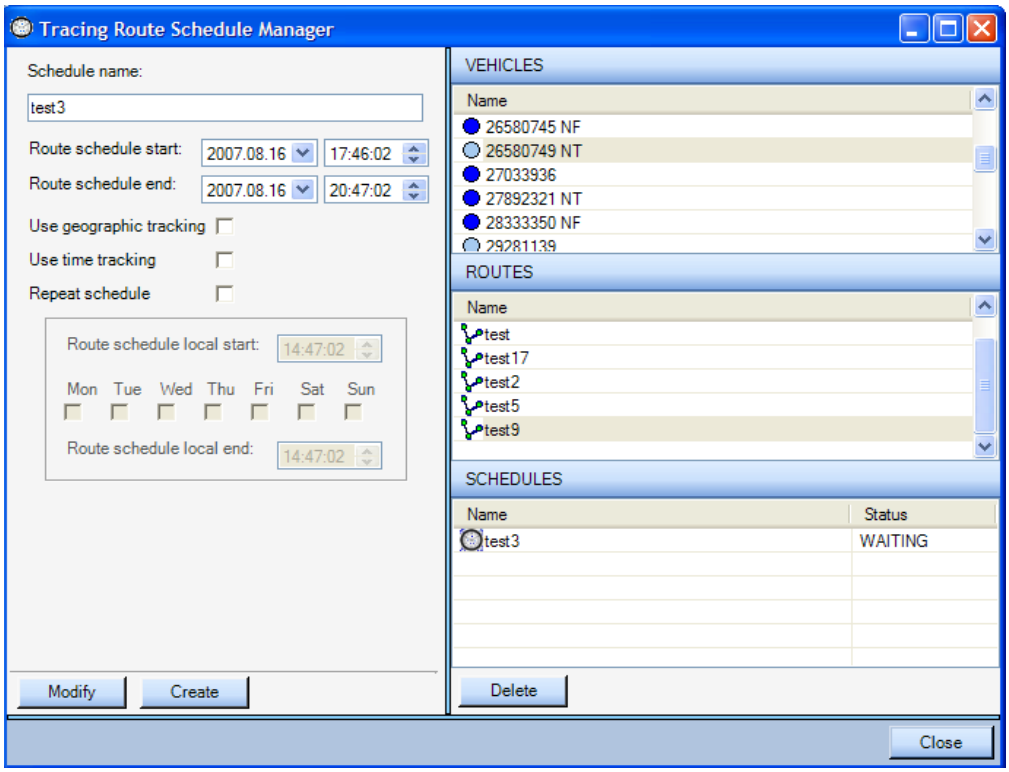
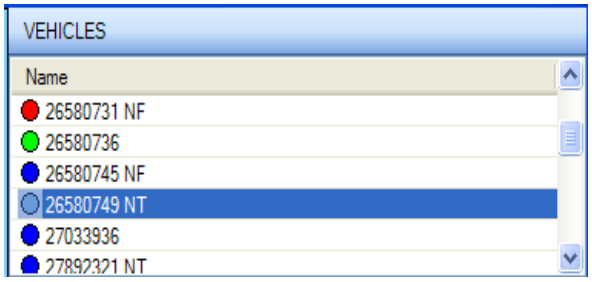
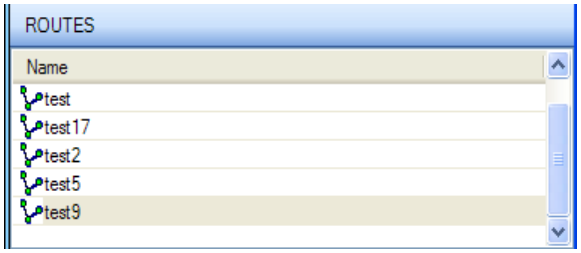


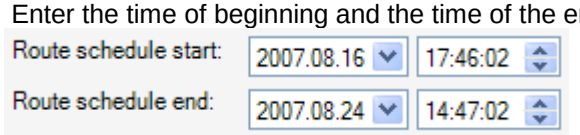


Select the vehicle from the list of **Vehicles**



Select the route from the list of **Routes**

Enter the name of the schedule in the field Schedule name:
Enter the time of beginning and the time of the end of the route:



The time of the end of the route is entered for a cyclic route (Route closed: ☑) and /or for a repeated schedule of the route (Repeat schedule ☑).
If you want to trace the route by the points of the route check the square Use geographic tracking ☑
If you want to trace the route by time, check the square Use time tracking ☑

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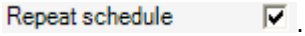
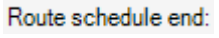
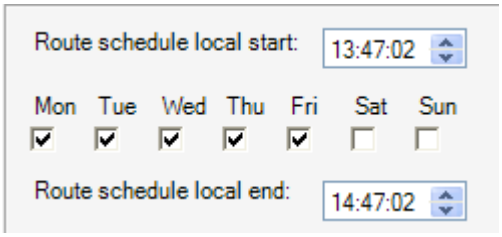
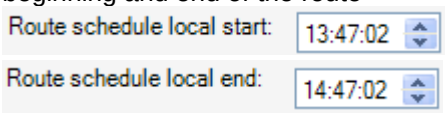
If you want to repeat the schedule of the route, check the square 

. To do that select 

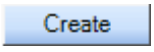
the end time of the route the route you want it to be traced and select the days on which the schedule of the route is to be repeated.

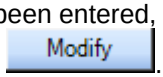


In addition, there you want to select the local time of the beginning and end of the route



and

After all settings have been entered, press the tab 

to create the schedule. To modify the schedule press the tab 

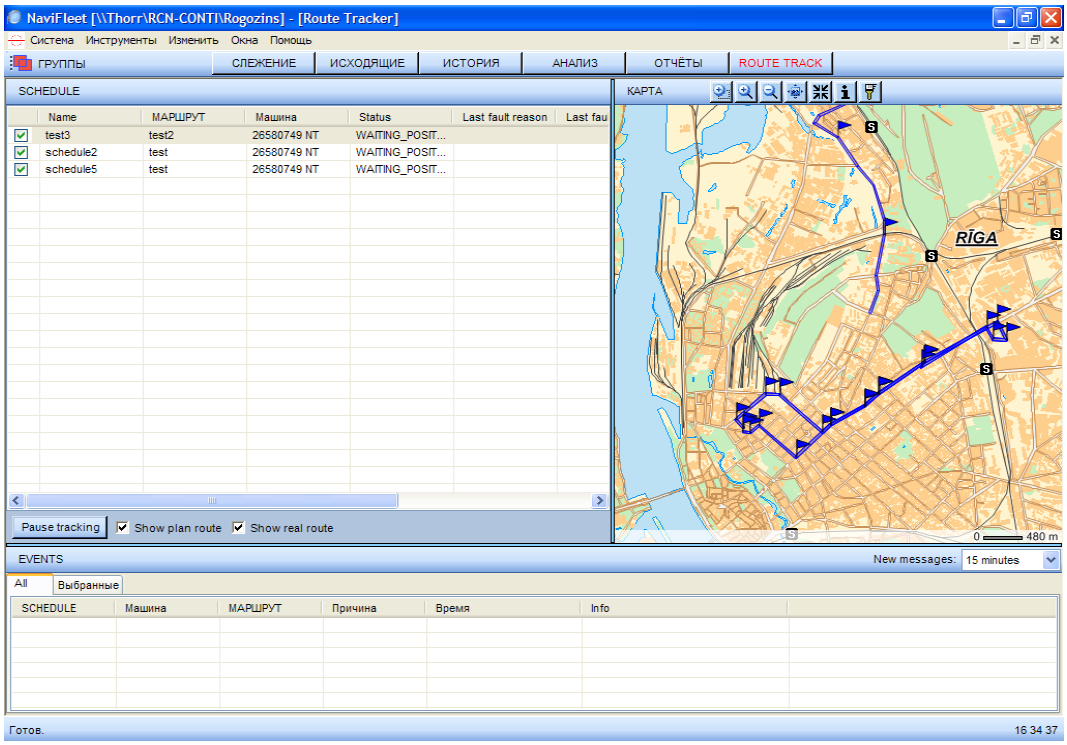
.

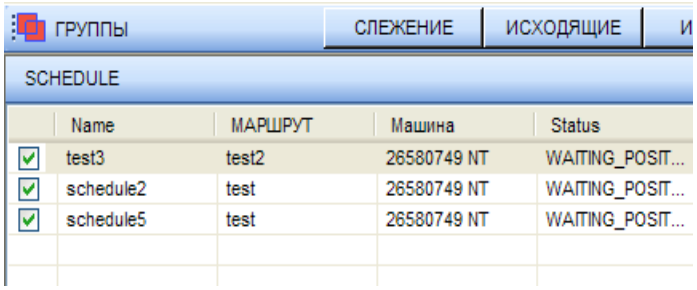
5.21.4. Route Tracking

In the main window press

.

The **Route Tracker** window will appear.

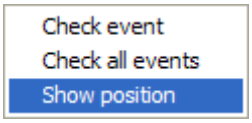




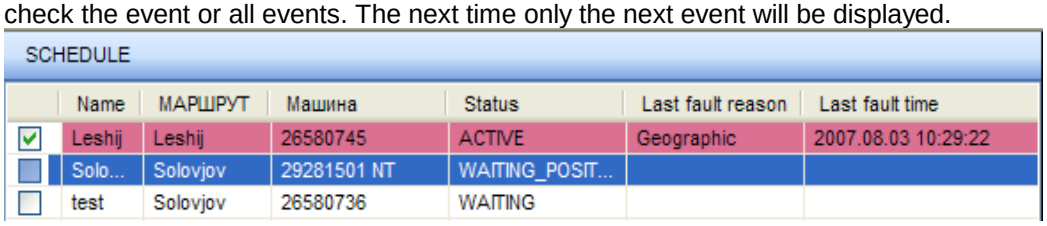
The SCHEDULE displays all schedules with additional information. To select the schedule check the square ☑ at the schedule.

The schedules can take various statuses:
Waiting
Waiting position waiting for a position
Active
Stopped the route tracking has been suspended.
Finished
Locally finished: the route has been finished locally.

Should the schedule be incontinent with the actual route, notifications (events) will appear in the list of EVENTS and in the SCHEDULE list the current schedule is highlighted in different color. Press schedule with the right mouse button and in the drop out menu select



to display the location where incontinency has occurred. By pressing Check event or Check all events, you thus check the event or all events. The next time only the next event will be displayed.



The events can be caused by the following reasons:
Geographical: points have been incontinent with the plotted route
Time in: late arrival at the point of the route
Time out: late departure from the point of the route

Notice: whenever the point is incontinent with the plotted route (Geographical), the notifications arrive and the red point is displayed on the map until the vehicle goes in accordance with the plotted route, then the red point turns green on the map.

On the map of the plotted route, the flags can assume the following values:

Flag	Description of values
	Normal state
	Arrived in time
	Failed to arrive in time
	The route has not been traced
	Arrived to the point in time, not departed the point yet
	Arrived to the point in due time, departed the point not in time
	Arrived to the point in due time, tracing from the point was suspended

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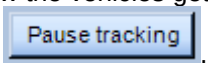
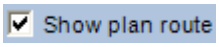
	Has not arrived to the point in time, has not departed the point yet
	Has not arrived to the point in time, departed the point in time
	Has not arrived to the point in time, tracking from the point was suspended
	At the point tracing was suspended, departed the point in due time
	At the point tracing was suspended, departed the point not in time

Should it be of minor importance to you as to how the vehicles gets around the point or you know for sure that the vehicle is not arriving in time press 

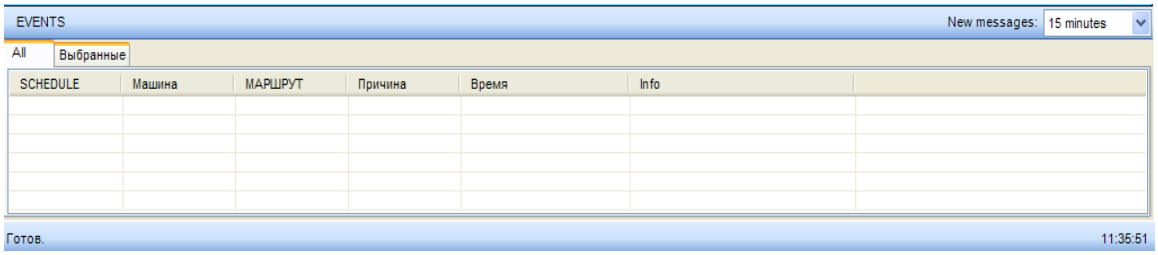
. Then upon arrival at the point the flag will possess the value

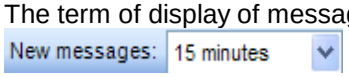
If 

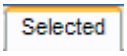
is checked, your pre-scheduled route is displayed.
If

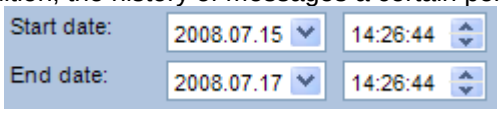
is checked, the actual route is displayed.

The list of EVENTS shows the history of all messages, which have been received due to geographical or time deviations from the route.



The term of display of messages is set in the list of EVENTS by choosing time in the field 

In addition, the history of messages a certain period can be viewed. Press 

and select the period 

and then press the tab

.

To clear the history, press the tab

.

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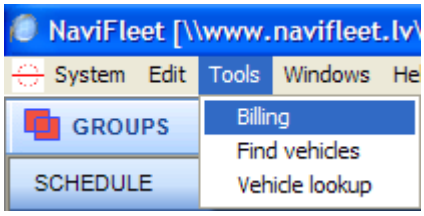
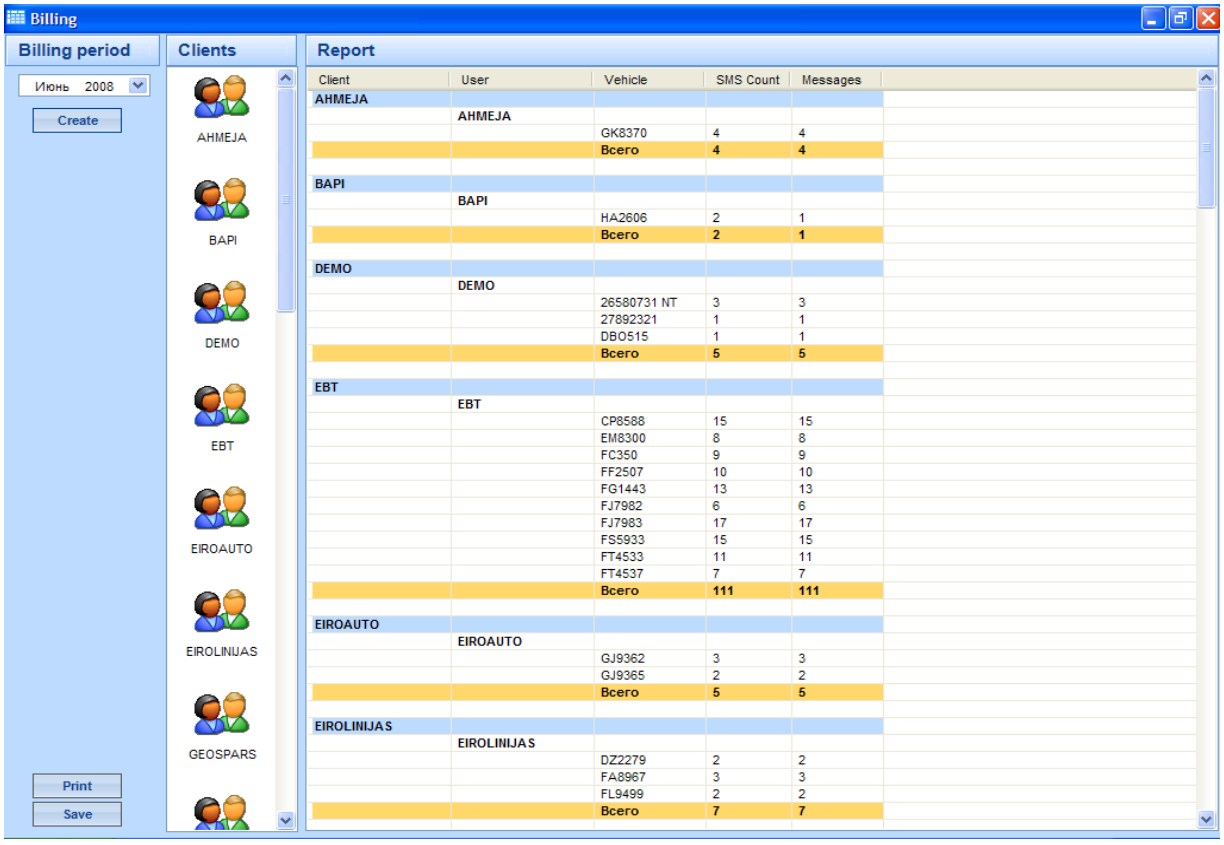
5.22. Billing

The purpose of **Billing** is to receive information on the quantity of outgoing SMS messages from the **NaviFleet Client.**



To open **Billing** in the menu press **Tools →Billing**



To make a month report, select the month in the calendar and press the tab Create.
The table shows which of the vehicles have been sent messages to and how many. If the client has several users, they are separated in the table.

To print the report, press the tab Print. To save the report on your computer (MS Excel) press the tab Save.

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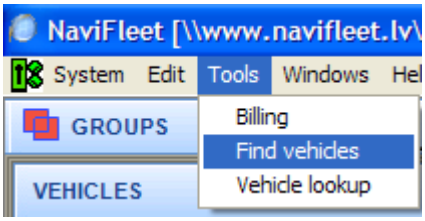
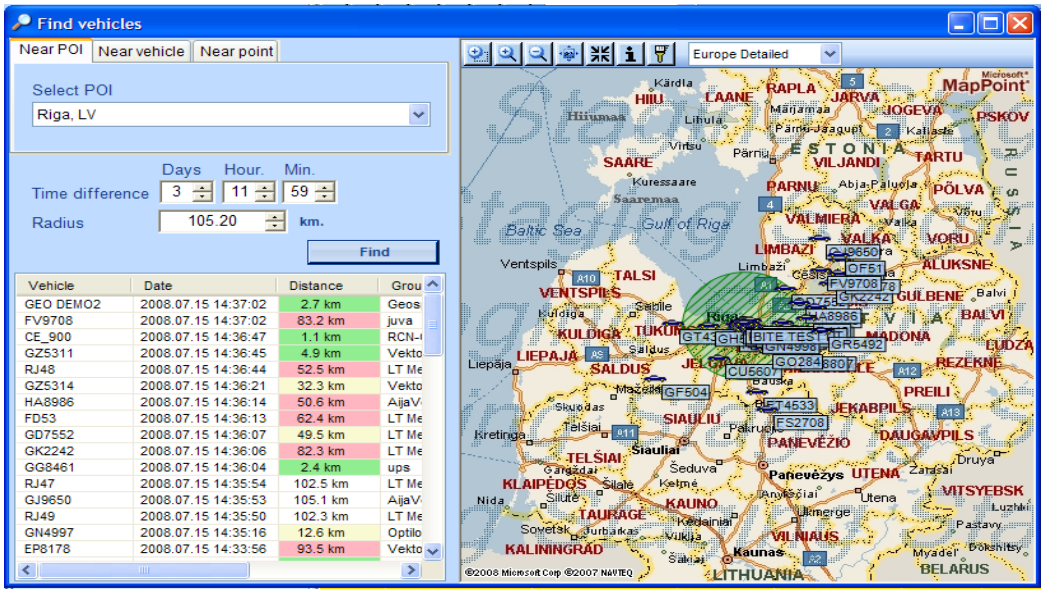
5.23. Finding vehicles

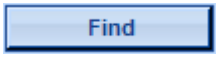


In the menu, select **Tools →Find vehicles.**



There are three ways to track down vehicles:
- Around a Point of Interest;
- Around the nearest vehicle;
- Around a GEO point;

5.23.1. Around the Point of Interest search

- Select the Point of Interest from the list of the Points of Interest (see **5.10. Setting Points of Interest**)
- Select Accuracy (the time interval of the range of search)
- Select radius of search (km)
- Press 

5.23.2. The around the vehicle search

- Select the vehicle from the list of vehicles
- Select Accuracy (the time interval of the range of search)
- Select search radius (km)
- Press

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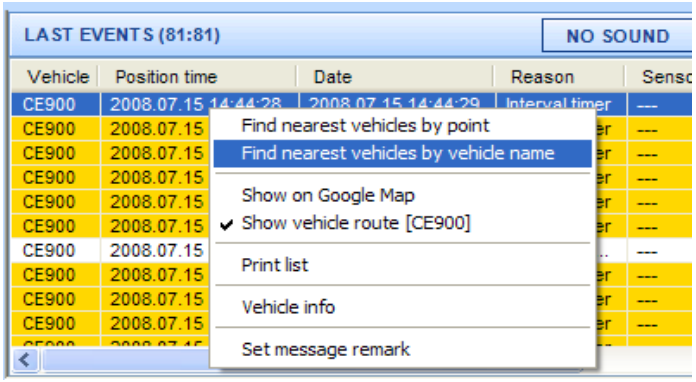
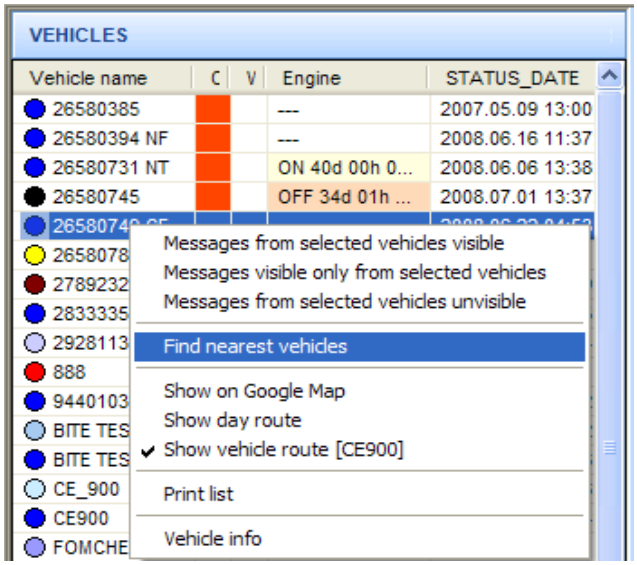


In addition, the search can be conducted in the in MONITORING module. To do that click the right mouse button on any message of the vehicle in question in section EVENTS and in the menu select **Find the closest vehicles by the name of the vehicle**



In addition, you can choose the search in the MONITORING module. To do that, press the right mouse button on the vehicles of your interest in section THE VEHICLES and in the menu select **Find closest vehicles**

5.23.3. Search around the GEO point

- Enter coordinates of the point or use the map to take them. To enter the coordinates using the map press the tab and move it to the center of the zone (area), then press the right mouse button and the point will be displayed.
- Select Accuracy (the time intervals of the search)
- Select search radius (km)
- Press

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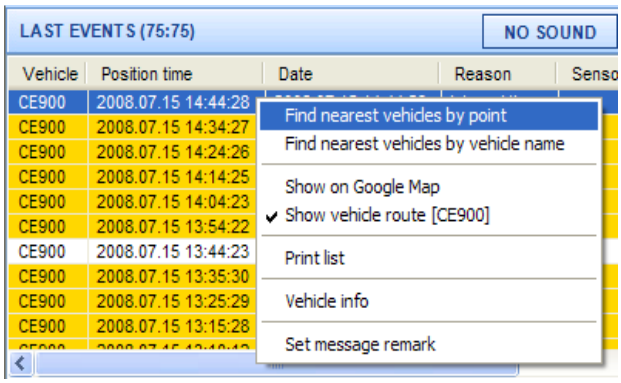
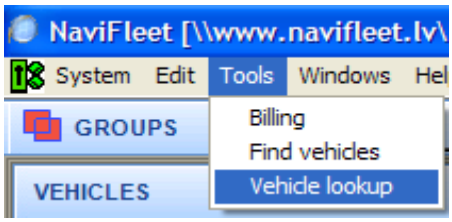


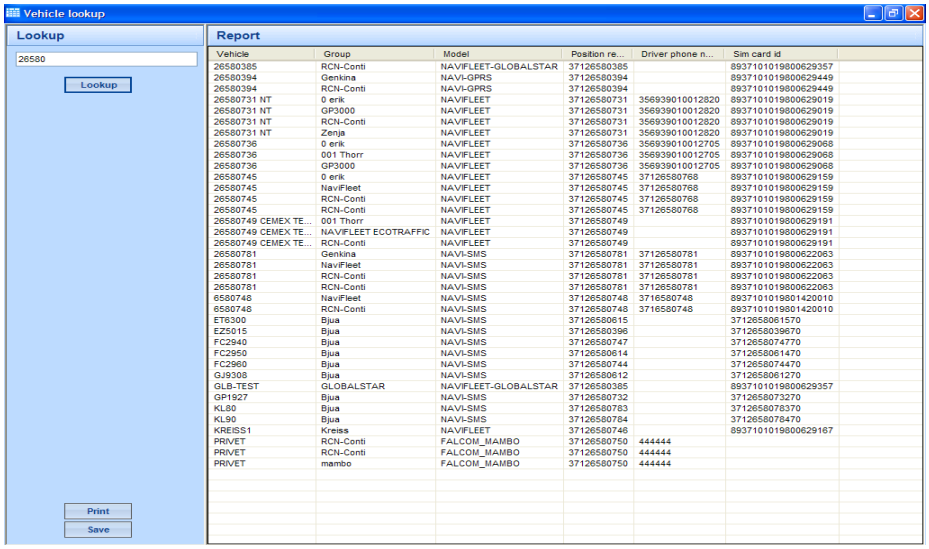
In addition, searching can be made in the in **MONITORING** module. To do that, press the right mouse button on the message containing the coordinates you are looking for in the **EVENTS** section and in the menu select **Find the nearest vehicles by point.**

Notice: In the vehicle table, the "Distance" field is colored according to the distance from the point. Green color means up to 10 km from the point, yellow color 10 to 50 km, red color 50 to 100 km and white color means 100 km and more. This rule pertains to all kinds of searches.

5.24. Vehicle Lookup



IN the main menu select **Tools →Vehicle lookup**



The **Vehicle Lookup** option is designed to conduct searches for vehicles in the entire database and to display the main communication information. Searches can be conducted by the name of the vehicle, group, request number, drivers' phone number and the SIM card ID. To begin the search, in the lookup line enter one of the parameters of the search or a part of information and press Lookup. To print the report, press the tab Print. To save the report on your computer (MS Excel) press the tab Save.

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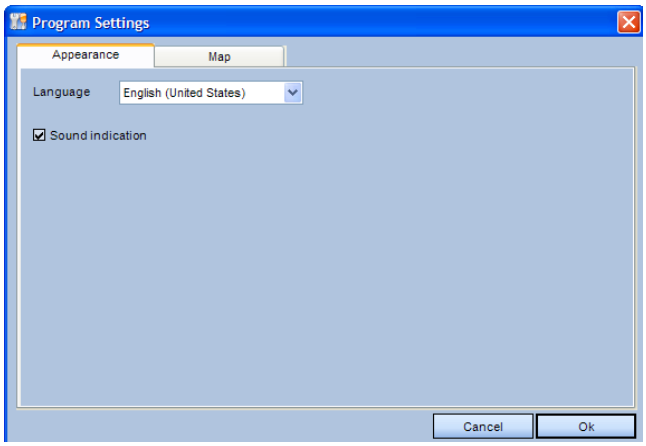
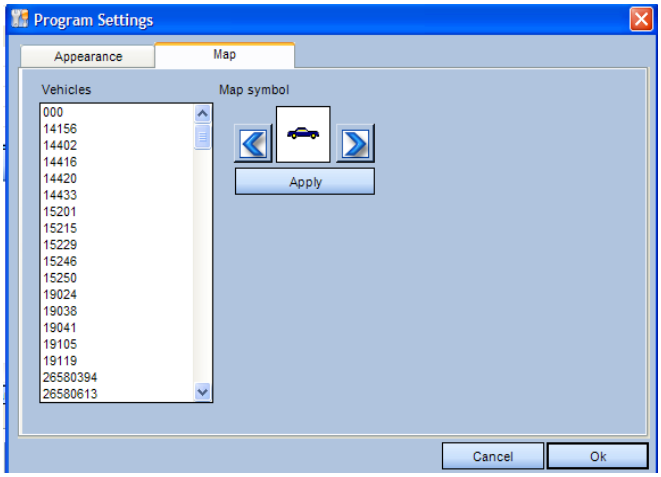
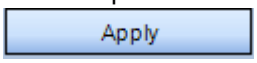
6. Program settings



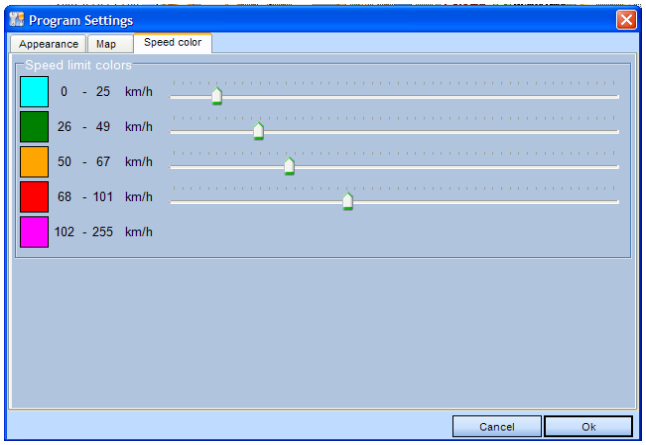
To enter the **Program settings,** in the main menu select **System→ Settings** Ion the **Appearance** tab you can choose the language: English, Russian, Latvian, and switch on/off sound notification.
Warning: Changes will take place after you restart the program!



In the **Map** you can edit the icon of the vehicle to be displayed on the map in Tracking To do that, select a vehicle from the list of vehicles, then select the icon and press the

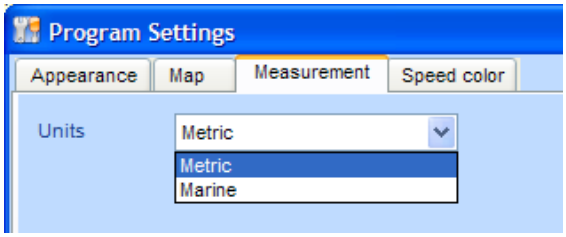


tab.



To change speed colors press **Speed color.** The points on the map will be displayed according to speed and the **Speed** field in the tables

Warning: Changes will take place after you restart the program!



To change measurement units press **Measurement** and select Metric (km) or Marine (miles) from the list box.

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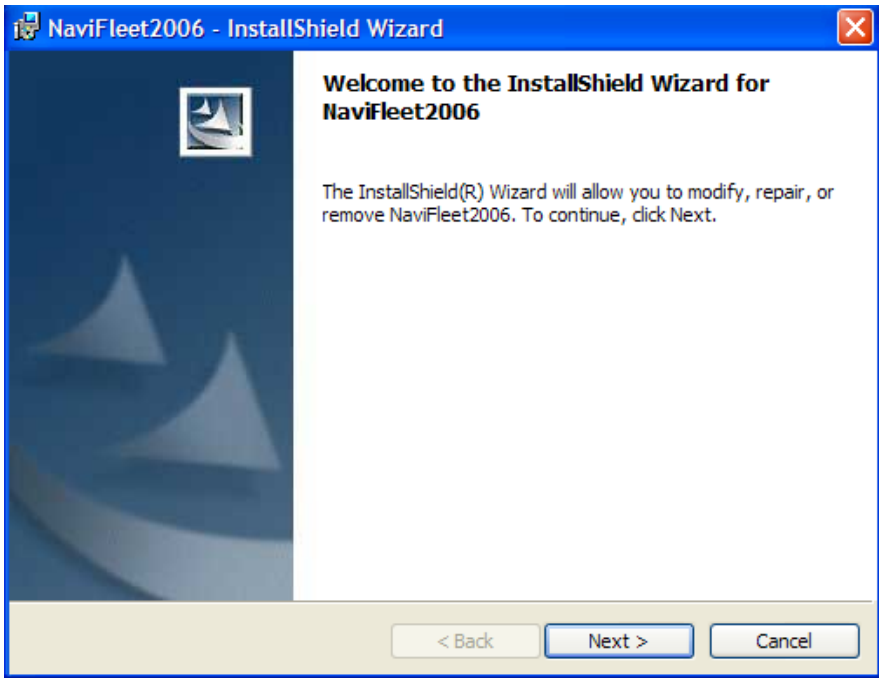
7. The Minimal system requirements

- OS: Win2000, WinXP.
- CDROM.
- PIII 1 GHz Processor.
- Minimal 512MB RAM. (1GB is better)
- 2 GB of available disk space on your hard drive.
- Connection to the Internet for remote connection.
- Network adapter.
- TCP/IP.
- Monitor resolution 1024*768 or higher.
- SVGA adapter with 16bit color support.
- USB port

8. Program installation

Launch **setup.exe** from the **Client directory**


NaviFleet2006 - InstallShield Wizard
Welcome to the InstallShield Wizard for NaviFleet2006
The InstallShield(R) Wizard will allow you to modify, repair, or remove NaviFleet2006. To continue, click Next.
< Back
Next >
Cancel

Select the directory where you want the NaviFleet 2006 program to be installed
Directory by default: C:\Program Files\RCN-Conti\Navifleet\Client2006\

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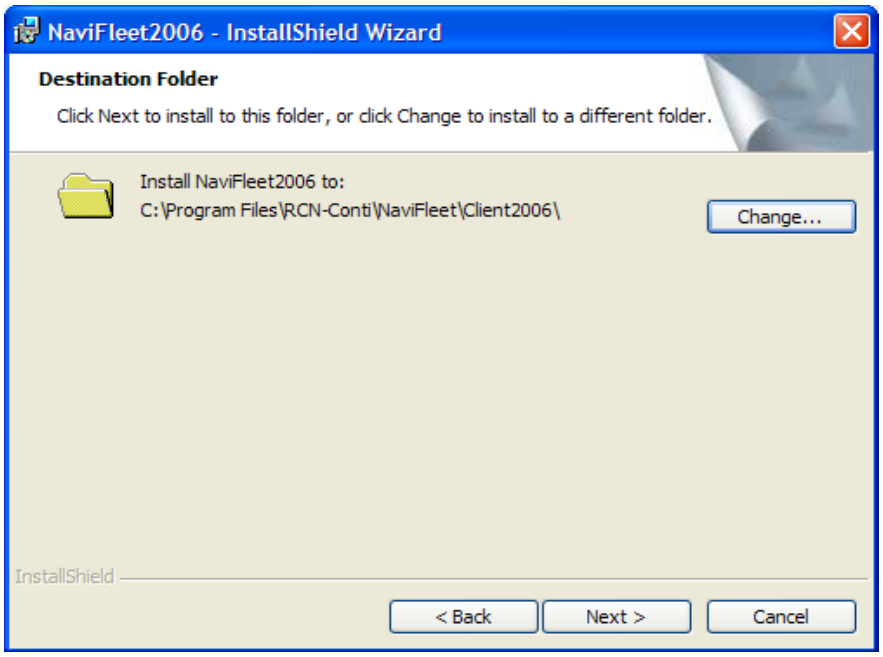
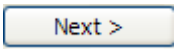
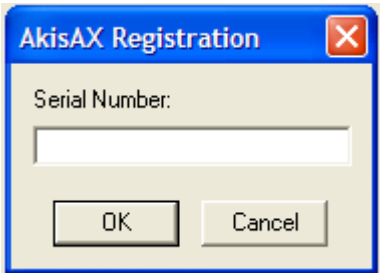


Then press 

Enter the serial number AkisAx (request from your dealer)



Enter the license number (ask your dealer)

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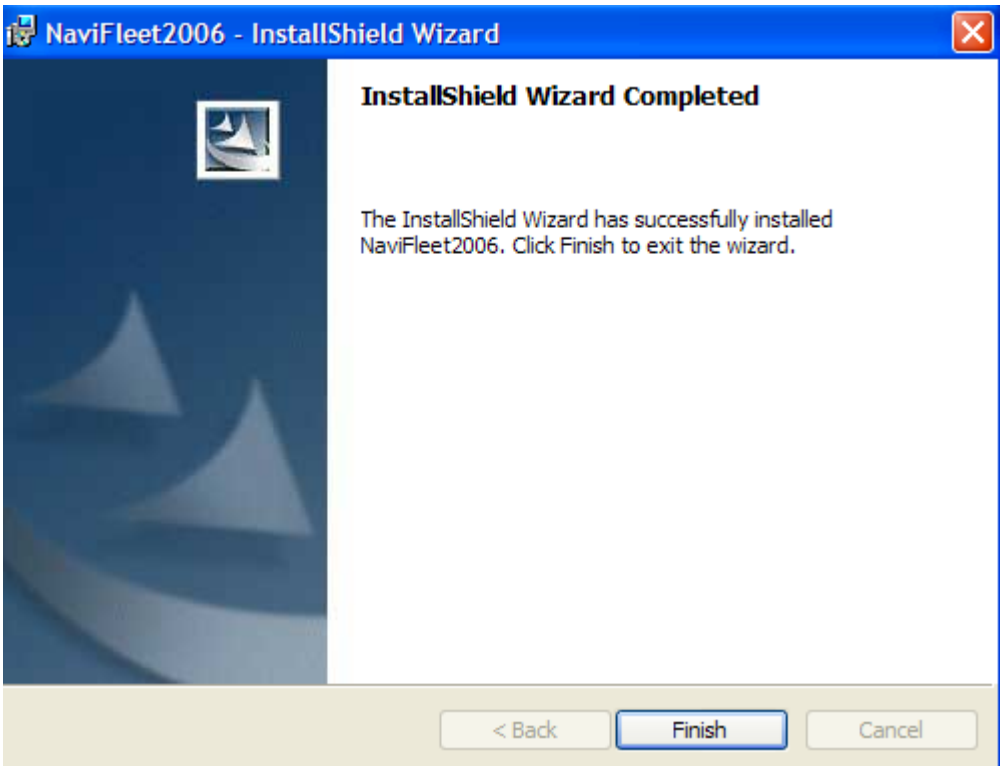
NaviFleet2006 - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed NaviFleet2006. Click Finish to exit the wizard.
< Back
Finish
Cancel

At the end of installation press Finish